

<110> Ruben et al.

<120> 83 Human Secreted Proteins

<130> PZ012P1

<140> Unassigned

<141> 1999-01-26

<150> PCT/US98/15949

<151> 1998-07-29

<150> 60/054,212

<151> 1997-07-30

<150> 60/054,209

<151> 1997-07-30

<150> 60/054,234

<151> 1997-07-30

<150> 60/054,218

<151> 1997-07-30

<150> 60/054,214

<151> 1997-07-30

<150> 60/054,236

<151> 1997-07-30

<150> 60/054,215

<151> 1997-07-30

<150> 60/054,211

<151> 1997-07-30

<150> 60/054,217

<151> 1997-07-30

<150> 60/054,213

<151> 1997-07-30

<150> 60/055,968

<151> 1997-08-18

<150> 60/055,969

<151> 1997-08-18

<150> 60/055,972

<151> 1997-08-18

<150> 60/056,561

<151> 1997-08-19

<150> 60/056,534

<151> 1997-08-19

<150> 60/056,729

<151> 1997-08-19

<150> 60/056,543

<151> 1997-08-19

<150> 60/056,727

<151> 1997-08-19

<150> 60/056,554

<151> 1997-08-19

<150> 60/056,730

<151> 1997-08-19

<160> 353

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

gggatccgga	gccc aaatct	tctgacaaaa	ctcacacatg	cccaccgtgc	ccagcacctg	60
aattcgaggg	tgcaccgtca	gtcttcctct	tcccccaaa	acccaaggac	accctcatga	120
tctcccgga	tcctgaggtc	acatgcgtgg	tggtggacgt	aagccacgaa	gaccctgagg	180
tcaagttcaa	ctggtacgtg	gacggcgtgg	aggtgcataa	tgccaagaca	aagccgcggg	240
aggagcagta	caacagcacg	taccgtgtgg	tcagcgtcct	caccgtcctg	caccaggact	300
ggctgaatgg	caaggagtac	aagtgc aagg	tctccaacaa	agccctccca	acccccatcg	360
agaaaacat	ctccaaagcc	aaagggcagc	cccagaaacc	acaggtgtac	accctgcccc	420
catcccggga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccgggagaac	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttctc	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
acaaccacta	cacgcagaag	agcctctccc	tgtctccggg	taaatgagtg	cgacggccgc	720
gactctagag	gat					733

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA

<213> Homo sapiens

<400> 3

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

<210> 4

<211> 27

<212> DNA

<213> Homo sapiens

<400> 4

gcggcaagct ttttgcaaag cctaggc 27

<210> 5

<211> 271

<212> DNA

<213> Homo sapiens

<400> 5

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6

<211> 32

<212> DNA

<213> Homo sapiens

<400> 6

gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7

<211> 31

<212> DNA

<213> Homo sapiens

<400> 7

gcgaagcttc gcgactcccc g gatccgcct c 31

<210> 8

<211> 12

<212> DNA

<213> Homo sapiens

<400> 8

ggggactttc cc 12

<210> 9

<211> 73

<212> DNA
<213> Homo sapiens

<400> 9

gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg	60
ccatctcaat tag	73

<210> 10

<211> 256

<212> DNA

<213> Homo sapiens

<400> 10

ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct	60
caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgcc	120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga	180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg	240
cttttgcaaa aagctt	256

<210> 11

<211> 1761

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (546)

<223> n equals a,t,g, or c

<400> 11

ttcgaaaacg attagtgaan gtanaagtan cngcagtagc gtcggattcc egggtcgacc	60
cacgcgtccg ggaagatgag gaggtcgctg agagctggga agaggcggca gacagcgggc	120
aggaaatcca aatctcctcc caaagtgcc attgtgattc aggacgatag ccttcccgcg	180
gggccccctc cacagatccg catcctcaag agggccacca gcaacgggtg ggtcagcagc	240
cccaactcca ccagcaggcc cacccttcca gtcaagtccc tagcacagcg agaggccgag	300
tacgccgagg cccggaagcg gatcctgggc agcgccagcc ccgaggagga gcaggagaaa	360

cccatcctcg	acaggccaac	caggatctcc	caacccgaag	acagcaggca	gccaataat	420
gtgatcagac	agcctttggg	tctgatggg	tctcaaggct	tcaaacagcg	cagataaatg	480
caggcaagaa	aagatgccgc	cgttgctgcc	gtcacgcct	cctgggtcgt	ccgccacggg	540
ttgcantgcc	gtggcagaca	gctggacttg	agcagaggga	acgacctgac	ttacttgac	600
tgtgatcccc	cttgctccgc	ccactgtgac	cttgaacccc	atgcactgtg	acctcccccc	660
ttctccccct	tcccactgtg	attggcacat	cgacaagggc	tgtcccaagt	caatggaaaag	720
ggaaaggggtg	ggggtaggg	gaaggttggg	gggacccagc	aaggactcag	agagtcagac	780
agtgccactt	ggccacttgg	ggtaaagcca	gtgccagcaa	taacagttta	tcatgtcat	840
taatttgga	tttcaaaaca	caaatgaaaa	ctcacacca	cccaccccca	agtgcattgc	900
tccatcactt	aaaaagtaag	ttccatttga	aaatatcctt	tctttttttt	ttcttcttat	960
ttttgtttgt	ttatacaaat	atctgatttg	caagaaaaag	tgcattggag	gggttttagt	1020
ggtttaaatga	atttttaatt	aagaaagggt	agtttggtag	tctacttaaa	aatgtttctg	1080
ggaaattcac	tagaaacatt	aaccaatagg	attttggtga	gcttagcttc	tgtattocta	1140
ctgccgcccc	gaaaaggggc	agggctctgc	agccgccagg	acagacgagc	accccatgcc	1200
tatacctccc	tccccgagct	aagtcccagg	gcattctggg	cttgccctgga	gactgggcta	1260
gctctgtagg	ctcggagctg	gggagggtgc	caacccacc	tctagtattt	tgggagatag	1320
ggaaagtga	ccgacttccc	cttcccatac	ccctcagggt	ggttccctac	cagccaggct	1380
tactacttct	agaagaaagc	agagtgccag	ggagtggat	tgcattccctg	ggcttagaag	1440
tgacggagag	aagacttggt	tagtattttg	ccatcagcac	aaggaaaacc	aggagagagt	1500
ctgcctccag	gactctgagc	cttctgcctc	gtatgttcag	aagggtggata	ggtcttccca	1560
ctccagcatg	gcttgaactc	ttaggggtct	gcagtgtcc	atctccattg	gtggcccag	1620
ctcagtaact	ataccctggt	catttcctgt	gtgcaatcag	tacctgaag	gcagaacatt	1680
ctgaataaag	ttggaaaaar	aamaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaaa	aaaaaactcg	a				1761

<210> 12

<211> 1519

<212> DNA

<213> Homo sapiens

<400> 12

tcgacccacg	cgtccggcgc	gcaccgccgc	ccgggcagcc	gctgggtcca	gctcacgaaa	60
cagccccggg	cgccgcgcgc	ctctgagtcc	agcctcctac	tgagaacagt	ccctcccttg	120
tgcggtcgc	aggctagccg	caggttcggc	cacgtcaaat	ccattttcta	aaaaagcagg	180
gagcagagct	ctctcttcgc	cgccgacgca	gaaaggagct	ggggaggaaa	aagctgctgc	240
cttttgcgct	ggagattcgt	gggcaaggct	tttcattttc	ccaggctgct	tccccctccg	300
ggtgaggagc	gtcctgagac	taaggaaaaga	gcctggaaaa	tggagcagac	ctggacgaga	360
gattatatttg	cagaggatga	tggggagatg	gtaccagaaa	cgagtcacac	agcagctttt	420
cttagtgaca	ctaaagatcg	aggccctcca	gtgcagtcac	agatctggag	aagtggtgaa	480
aaggctccgt	ttgtgcagac	atattccttg	agagcatttg	agaaaccccc	tcaggtacag	540
accaggctc	ttcgagactt	tgagaagcac	ctcaatgacc	tgaagaagga	gaacttcagc	600
ctcaagctgc	kcatctactt	cctggaggag	cgcatgcaac	agaagtatga	ggccagccgg	660
gaggacatct	acaagcgga	cactgagctg	aagggtgaag	tggagagctt	gaaacgagaa	720
ctccaggaca	agaaacagca	tctggataaa	acatgggctg	atgtggagaa	tctcaacagt	780
cagaatgaag	ctgagctccg	acgccagttt	gaggagcgac	acagkgagac	ggagcatggt	840
tatgagctct	tggagaataa	gatscagctt	ctgcaggagg	aatccaggct	agcaaagaat	900
gaagctgcgc	ggatggcagc	tctgggtggaa	gcagagaagg	agtgtaacct	ggagctctca	960
gagaaactga	agggagtcac	caaaaactgg	gaagatgtac	caggagacca	ggtcaagccc	1020
gaccaataca	ctgaggccct	ggcccagagg	gacaagtagg	tgcttccggg	gctctttttg	1080
tcgcttgtct	tttggccatt	ctcaaggcat	acagcagctg	tctgttccc	tttcaaggac	1140
tgacagtagg	agcttacta	tttctaagac	tttatgggccc	cacaaccgaa	gacattcttt	1200
tcagggttga	attttcagt	gtatccatta	tgaaaactca	cttcatggat	tcagtgggca	1260
aatagcggca	agcaagagac	atggattcac	ttgtctggca	aacatttact	gggcatgcc	1320
catgccagat	accgggctaa	gtactctggc	tgtgttacag	aaacaaaaga	cctaaatctt	1380
gtcaccaaga	aacatgttac	atgattttta	taagttccct	gatagaagag	catggggtgc	1440
tctggggaaa	tattggaggg	tcatccattc	cacattaaaa	gagcaagttg	tctgcaaaaa	1500
aaaaaaaaaa	aaaactcga					1519

<210> 13
 <211> 1071
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (158)
 <223> n equals a,t,g, or c

<400> 13

gcccgcgacc	agttccctga	ggtacgggttc	tccatgggtgc	acaagcggat	caacctggcg	60
gaggacgtgc	tggmctggga	gcacgagcgc	ttcgccatcc	gccgactgcc	cgccctcaag	120
ctgtcccacc	tggagagcca	ccgtgacggc	cagcgcanag	catcatggac	gtgcgggtccc	180
gggtggattc	taagaccctg	acccgtaaca	cgaggatcat	tgcagaggcc	ctgactcgag	240
tcatctacaa	cctgacagag	aaggggacac	cccagacat	gccggtgttc	acagagcaga	300
tgatccagca	ggagcagctg	gactcgggtga	tggactggct	caccaaccag	ccgcggggccg	360
cgactgggtg	gacaaggaca	gcaccttcct	cagcacgctg	gagcaccamc	tgagcmgcta	420
cctgaaggac	gtgaagcagc	accacgtcaa	ggctgacaag	cgggacccag	agttttgtctt	480
ctacgaccag	ctgaagcaag	tgatgaatgc	gtacagagtc	aagccagccg	tctttgacct	540
gctcctggcc	gttggcattg	ctgcctacct	cggcatggcc	tacgtggctg	tccagcaactt	600
cagcctcctc	tacaagaccg	tccagaggct	gctcgtgaag	gccaagacac	agtgcacacag	660
ccacccccac	agccggagcc	cccgcgcctc	cacagtccct	ggggccgagc	acgagtgagt	720
ggacactgcc	ccgcgcgggg	cgccctgcga	gggacagggg	ccctctccct	ccccggcggt	780
ggtttgaaca	ctgaattaca	gagctttttt	ctgttgctct	ccgagactgg	ggggggattg	840
tttcttcttt	tccttgtctt	tgaacttcct	tggaggagag	cttgggagac	gtcccggggc	900
caggctacgg	acttgccggac	gagcccccca	gtcctgggag	ccggccgccc	tcgggtctggt	960
gtaagcacac	atgcacgatt	aaagaggaga	cgccgggacc	ccccaaaaaa	aaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaactcga	a	1071

<210> 14
 <211> 955
 <212> DNA
 <213> Homo sapiens

<400> 14

gggcccgggc	gcccgggtgc	gatcgcgagg	ctgtgaggcg	caggcagggc	tctggggcac	60
ctagagaccg	gggcccggaga	cgtggcagcc	gccctgcccg	ccagaaagtt	tcttagaagt	120
ttgctggggc	cgggcgccag	actgactggc	tggaccatga	acgtgttccg	aatcctcggc	180
gacctgagcc	acctcctggc	catgatcttg	ctgctgggga	agatctggag	gtccaagtgc	240
tgcaagggca	tctctgggaa	gagccagatc	ctgtttgctc	tcgtcttcac	caccaggtag	300
ctggacctgt	tcaccaactt	catctccatc	tacaacacag	taatgaaggt	ggttttttctc	360
ctctgtgcct	atgttacagt	gtacatgata	tatgggaaat	tccgtaaaaac	ttttgacagt	420
gagaatgaca	cattccgcct	ggagtttctt	ctgggtcccag	tcattggcct	ttccttcctt	480
gaaaactaca	gtttcactct	gctggagatc	ctctggactt	tctctatcta	tctggaatca	540
gtggctatcc	tgccccagct	cttcatgatc	agcaagactg	gagaggctga	gaccataact	600
actcaactacc	tgttctttct	gggtctgtac	cgggcactct	acctggctaa	ctggatcagg	660
cggtagcaga	ctgagaattt	ctatgaccaa	attgcagtcg	tgtctggagt	agtacaaaac	720
atcttctact	gtgactttct	ctacttgtat	gggaccaaag	gtaggctctg	ggatgacagc	780
aatgtctgaca	ctggcctaag	gagttactca	tccatttaat	aagtattcca	gcagatacag	840
atgtgaacag	tcaagtctct	gccatccaca	atgcttgtgt	tctaattgcaa	gaagacaaat	900
attttcaata	aagaaacaaa	tgccataaaa	acaaaaaaa	aaaaaaaaaa	ctcga	955

<210> 15

<211> 1508
 <212> DNA
 <213> Homo sapiens

<400> 15

ctctgaactg	cgccatcaac	tccagtctcg	gcagcagctc	cgctcccggc	gccacccacc	60
gacaccccc	gaaccctctg	ggggcctgcc	caggggaccc	cctgagcccc	ccgaccggct	120
tagctgtgat	gggagtcgag	tgcatttgct	ttataagtga	gggtaggggtg	agggaggaca	180
ggccagtagg	gggagggaaa	gggagagggg	caagggcagg	ggactcagga	agcagggggg	240
ccccatcccc	agctgggaag	aacatgctat	ccaatctcat	ctcttgtaaa	tacatgtccc	300
cctgtgagtt	ctgggctgat	ttgggtctct	catacctctg	ggaaacagac	ctttttctct	360
cttactgctt	catgtaattt	tgtatcacct	cttcacaatt	tagttcgtac	ctggcttgaa	420
gctgctcact	gctcacacgc	tgcctcctca	gcagcctcac	tgcattcttc	tcttcccatg	480
caacaccctc	ttctagttac	cacggcaacc	cctgcagctc	ctctgccttt	gtgctctggt	540
cctgtccagc	aggggtctcc	caacaagtgc	tctttccacc	ccaaagggcc	tctccttttc	600
tccactgtca	taatctcttt	ccatcttact	tgcctctcta	tactttctca	catgtggctc	660
ccccctgaatt	ttgcttcctt	tgggagctca	ttcttttctg	caaggctcac	atgctccttg	720
cctctgctct	gtgcactcac	gctcagcaca	catgcactct	ccccctctct	gcgtgtgcc	780
actgaacatg	ctcatgtgta	cacacgcttt	tcccgatgct	ttcttctcatg	ttcagtcaca	840
tgtgctctcg	ggtgcccctg	attcacagct	acgtgtgccc	ctctcatggt	catgggtctg	900
cccttgagcg	tgtttgggta	ggcatgtgca	atttgtctag	catgctgagt	catgtctttc	960
ctatttgcac	acgtccatgt	ttatccatgt	actttccctg	tgtaccctcc	atgtaccttg	1020
tgtactttct	tcccttaaat	catgggtatc	ttctgacaga	gccatatgta	ccctaccctg	1080
cacattgtta	tgcacttttc	cccaattcat	gtttgggtgg	gccatccaca	ccctctcctt	1140
gtcacagaat	ctccatttct	gctcagatc	ccccatctc	cattgcattc	atgtactacc	1200
ctcagtctac	actcacaatc	atcttctccc	aagactgctc	ccttttggtt	tgtgtttttt	1260
tgaggggaat	taaggaaaaa	taagtggggg	caggtttgga	gagctgcttc	cagtggatag	1320
ttgatgagaa	tcctgaccaa	aggaaggcac	ccttgactgt	tgggatagac	agatggacct	1380
atgggggtgg	aggtggtgtc	cctttcacac	tgtggtgtct	cttgggggaag	gatctccccg	1440
aatctcaata	aaccagtga	cagtgtgact	cggaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaactcga						1508

<210> 16
 <211> 2006
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> n equals a,t,g, or c

<400> 16

ggtcacgagg	cactttttggt	aagccagggg	togtgtgggt	ggtacggagt	tgccacattt	60
cggcaaaggn	aactatgtag	ctgatcttgg	agccatgggt	gtaacagggt	tttgagggaa	120
tcctatggct	gtggctcagca	aacaagtaaa	tatggaactg	gccaagatca	agcaaaaatg	180
cccactttat	gaagccaacg	gacaagctga	cactgtcaag	gttcctaaag	agaaagatga	240
aatggtagag	caagagttta	accggttgct	agaagctaca	tcttacctta	gtcatcaact	300
agacttcaat	gtcctcaata	ataagcctgt	gtcccttggc	caggcatttg	aagttgtcat	360
tcagttacaa	gagaagcatg	tcaaagatga	gcagattgaa	cattggaaga	agatagtga	420
aactcaggaa	gaattgaaag	aacttcttaa	taagatggta	aatttgaaag	agaaaattaa	480
agaactccat	cagcaataca	aagaagcatc	tgaagtaaa	ccaccagag	atattactgc	540
cgagttctta	gtgaaaagca	aacacaggga	tctgaccgcc	ctatgcaagg	aatatgatga	600
attagctgaa	acacaaggaa	agctagaaga	aaaacttcag	gagttggaag	cgaatcccc	660
aagtgatgta	tatctctcat	caagagacag	acaaatactt	gattggcatt	ttgcaaactc	720
tgaatttgct	aatgccacac	ctctctcaac	tctctccctt	aagcactggg	atcaggatga	780
tgactttgag	ttcactggca	gccacctgac	agtaaggaat	ggctactcgt	gtgtgcctgt	840

ggcttttagca	gaaggcctag	acattaaaact	gaatacagca	gtgcgacagg	ttcgctacac	900
ggcttcagga	tgtgaagtga	tagctgtgaa	taccgcctcc	acgagtcaaa	cctttattta	960
taaatgcgac	gcakttctct	gtacccttcc	cctgggtgtg	ctgaagcagc	agccaccagc	1020
cgttcagttt	gtgccacctc	tccctgagtg	gaaaacatct	gcagtccaaa	ggatgggatt	1080
tggcaacctt	aacaagggtg	tgttgtgttt	tgatcgggtg	ttctgggata	caagtgtcaa	1140
tttgttcggg	catgttggca	gtacgactgc	cagcargggt	gagctcttcc	tcttctggaa	1200
cctctataaa	gctccaatac	tgttggcact	agtggcagga	gaagctgctg	gtatcatgga	1260
aaacataagt	racgatgtga	ttgttggccg	atgcctggcc	attctcaaag	ggatttttgg	1320
tagcagtgca	gtacctcagc	ccaaagaaac	tgtggtgtct	cgttggcgtg	ctgatcccta	1380
tgttgctgca	ggatcatctg	gaaatgacta	tgatttaatg	gctcagccaa	tactcctgg	1440
cccctcgatt	ccaggtgccc	cacagccgat	tccacgactc	ttctttgctg	gagaacatac	1500
gatccgtaac	taccagcca	cagtgcattg	tgtctgctg	agtgggctgc	gagaagcggg	1560
aagaattgca	gaccagtttt	tgggggccat	gtatacgctg	cctcgccagg	ccacaccagg	1620
tgttcttgca	cagcagtcct	caagcatgtg	agacagatgc	attctaaggg	aagaggccca	1680
tgtgcctgtt	tctgccatgt	aaggaaggct	cttctagcaa	tactagatcc	cactgagaaa	1740
atccaccctg	gcattctggc	tctgatcag	ctgatggagc	tcttgatttg	acaaaggagc	1800
ttgcctcctt	tgaatgacct	agagcacagg	gaggaacttg	tccattagtt	tgggaattgtg	1860
ttcttcgtaa	agactgaggt	aagcaagtgc	tgtgaaataa	catcatctta	gtcccttggt	1920
gtgtgggggt	tgtttttttt	ttttatat	tgagaataaa	acttcatata	aaattgaaaa	1980
aaaaaaaaaa	aaaaaaaaaa	actcga				2006

<210> 17

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (530)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (540)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (545)

<223> n equals a,t,g, or c

<400> 17

gaattcggca	cgagatggaa	aacaccttct	ttgtcttctt	ggtgtcagcc	ctgctgctgg	60
ccgtgatcta	cctcaacatc	cagggtggtg	ggggccagcg	caaggctcatc	tgcctgctca	120
aggagcagat	cagcaatgag	ggtgaggaca	aaatcttctt	aatcaacaag	cttcaactcca	180
tctacgagag	gaaggagagg	gaggagagga	gcagggttgg	gacaaccgag	gaggctgcgg	240
cacccctcgc	cctgctcaca	gatgaacagg	atgcctaggg	ggacggcgat	gggcctcacg	300
ggccsgccca	gcacctgag	accacactgt	tgcctcccag	tgacctgct	gggacaccag	360
gacaaggaag	acagtttctg	ctctcgaaa	ccgcagctgc	gcctaggctg	gagctggaag	420
ggtgggtgaa	tccggcttgg	gcattcccaa	tgaactctgc	cctgcctggg	actctattta	480
ttctgattaa	aggggttttg	caaataaaaa	aaaaaaaaaa	aaaaaaaccn	cggggggggg	540
ccggn						545

<210> 18

<211> 602

<212> DNA

<213> Homo sapiens

<400> 18

gaattcggca	cgagtgcctt	gggttcgat	tgataccac	tcttgttgtt	caaaagagag	60
atgagtgtg	cttctttttg	gccccggcct	gtggcaagta	tctcagtctt	catactgctg	120
ggaagctctg	taaccaccag	caagaccaga	agtggggtga	tcagcagtgc	aggaaagccc	180
atgttggtgc	agtccccgca	cctagccctt	ttggaagtgc	ttctccaaaa	gggaattgtg	240
ccggaaaagt	agggattgaa	accaaacagc	cacatcctgc	catcaggatg	ctctttatgg	300
ccccactgac	caagaaatca	cagcttctgt	actcagtgat	gactgcttga	cttcagtgtg	360
ggaaaacaat	gaagttctgt	agccaggcgt	ggtggcagat	gtctgtaatc	ccagctactc	420
gggaggctga	ggcaagagaa	ttgcttaaac	ccccggagggt	ggagggttga	gtgagccgag	480
atggcgacac	tgactccagc	ctgggtgcca	gagcgagact	ctttgtctca	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaagaaa	aaaacggcac	600
ga						602

<210> 19

<211> 587

<212> DNA

<213> Homo sapiens

<400> 19

ggctgcagga	attcggcacg	agtaaggcta	tataaacggg	aagttaagta	ttaatagaat	60
ccagtgtgac	taacaaggga	tatcgagtgc	ttcagacctg	tggtatacat	aataagcttg	120
aagaatttgt	gcacaaaagt	cttaactgtt	ttgcagcctt	ggttgtgggt	agatgctgta	180
gttttctaag	ctactacatg	ttgtaaccag	cttggtagat	ttaacctagt	aataagatgc	240
ttagtttaac	tgttagttta	aagtcagttt	ctatagcggc	acagtcttta	tttttggacc	300
ttcactttcc	aatccagatg	acacttgttc	ataaagaaat	tgctaaactt	gagacctaaa	360
aacaaaacaa	aaaacaaaaa	aactacagac	aagtaacctt	taaaattatt	tcgcttgatg	420
gaaatttacc	ggaaggcttt	aaccaattca	gtttgcttag	actcataaag	aaaattatga	480
taatgtctag	gtaaaacttca	gcaaaacatt	tttttgtgaa	attatactat	agtacataaa	540
attgaaatat	tgctgattta	atgtaaaaaa	aaaaaaaaaa	aactcga		587

<210> 20

<211> 644

<212> DNA

<213> Homo sapiens

<400> 20

aattcggcac	gagagattac	atccctcctg	tgttcacacc	ccaccatgac	tttacaatga	60
tcttacagtg	caagagtctt	tacaagacct	tacaatacat	gatcttcctc	gcagcatttt	120
acctctcccc	tatttcttaa	tacacttctt	cttcactctg	ggccagctac	actaaccttc	180
ttgttgtttc	ttgtatactt	atcagacaca	ttcttccttc	aagctatttg	tatttgctat	240
tccttcaaat	aaccttatag	cttggtctta	acatccttca	aaccattgct	cagatgtaca	300
cttccacatg	actctttacc	ttaacactaa	caaaaataaa	cgtctgccc	tgtactctct	360
ctttttctgc	tttatttcca	ccccatatac	ttatggcctt	caaataatgct	ataaatgttt	420
ttttatttat	atttttgtta	tctgtctcta	ctaaaaatac	aaaaattagc	tgggtgtgct	480
ggctggcacc	tgtaatccca	gctacttggg	aggcttaggc	agaagaatca	cttgaacctg	540
ggaggcagag	gttgacgtga	gctgagatcg	cgccactgta	ctccagcctg	ggcaacagga	600
gtgagatccg	tctcaacaaa	aaaaaaaaaa	aaaaaaaaaa	tcga		644

<210> 21

<211> 1257

<212> DNA

<213> Homo sapiens

<400> 21

aggaaatgct	ttgggatgag	tctattcttg	gattttgaat	gttttagtttt	gtttacccaa	60
ggttgaattg	aaaaaaaaaa	acagtcaata	tggatttaga	aaaaggaaca	cctgatgaag	120
aaaaggagag	gtagatacag	tcagtgtcac	ttcaggacac	ttaggttttt	tttgataaaa	180
aattttaaatt	gaattaaaag	aaggaaaaaa	aaagcccaaa	cttaacctct	gagaaagaac	240
ataagaactc	aaggagaaca	taagagaaaa	ggaaacctgt	tacagaaaag	acaagaatct	300
gtgttttggg	atgagtctat	tcttgggtat	tgaactttta	gttttgtttg	cccaaggatt	360
aattgaggaa	atcagctaag	aaaatggact	ttagacaaaa	gcaagaggat	cagatgaaga	420
aaaggagagg	tagatacagt	cagtgtcact	tcaggaaagc	tatttaaaaa	aacttgaaat	480
ttaactgaaa	gaagaaacaa	caacaaaaaa	gcctaaacct	agcctctgaa	caacactaac	540
atgagaacac	aagaacttaa	gagaaaaaga	aacctactca	agaaaagaca	gaagagacag	600
tgatttggga	tgagtctact	ctaggatttt	caacttttta	gttttgttcc	ttcaaagttg	660
aaggaaaaaa	agtttgggtt	tataaaattc	atgttattgt	aatttttcta	ggtggatggc	720
tatttttaatc	tctaaaaaag	ccaagtgaag	taaaagtatt	cagtatgcct	tttctcctcaag	780
ttacttttct	tcatttttct	aaaaaaraaa	aaaaattatt	aaatgtttct	cacatatctc	840
acataataatg	taatttccct	aaatgaagtt	gtctctactt	ctgctcatca	aattgctgtg	900
atagtgaatt	atatttcat	gggagataat	ttatttttaa	ggacagaatt	accaagcggt	960
acaaaatcag	ttcttttctt	ggttttgtgt	tagtgttggt	ggtattttat	tggtgttttt	1020
ctgtgtttat	gtgtctcagc	tttctccaag	gaatatgtat	gaaataactt	aaactgattt	1080
tttctttgtt	aaatctaatt	tgcaagtgtat	ttttgcattt	tctagttctg	aaagtggaaa	1140
atgaaacagt	ctataataaa	cttagatgat	atatagtttt	aaaacggctc	caaaaagtac	1200
tgatataaag	tcagtctata	ttctggaaat	gtttatatta	aagtgtttta	atttcta	1257

<210> 22

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<400> 22

gntccaattt	catttttaaaa	gatgtagaaa	gaagaatcaa	gcatcaatta	attataaagc	60
ctaaagcaaa	gtagattttg	gggttatttc	agccaaaatt	accgttttag	accagaatga	120
atagactaca	ctgataaaaat	gtactggata	atgccacatc	ctatatgggtg	ttatagaaat	180
agtgcraagga	aagtacattt	gtttgcctgt	cttttcatatt	tgtacattct	tccattctg	240
tattcttgta	caaaagatct	cattgaaaat	ttaaagtcac	cataatttgt	tgccataaat	300
atgtaagtgt	caataccaaa	atgtctgagt	aacttcttaa	atccctgttc	tagcaaaacta	360
atattggttc	atgtgcttgt	gtatatgtaa	atcttaaaatt	atgtgaacta	ttaaataagac	420
cctactgtac	tgtgcttttg	acatttgaat	taatgtaaat	atatgtaatc	tgtgacttga	480
tattttgttt	tatttggtcta	tttaaaaaaca	taaatctaaa	aaaaaaaaaa	aaaaaactcg	540
a						541

<210> 23

<211> 567

<212> DNA

<213> Homo sapiens

<400> 23

gaattcggca	cgagctggat	tcctttttttg	tctctaacaa	aatatctaaa	gaaaaccgaa	60
aacatgctcc	gtataaaaag	ttgtctctta	ttattttttta	ttttttttcc	atttaacatt	120
aaagactctc	aagtacctgc	caattatatt	gccacatttt	ctaggaaatg	cagcttttag	180
caattctttg	ttgattcaaa	tgaaatcaac	ctagctcagc	taatattaat	tgattagatt	240
gagaataaag	tcctaatacc	aaaggctgac	caagagaaaa	tgcttgaaat	cagatgttga	300

ctgattcagg	ccggttctat	cagtttgggc	aagttgctag	ggagtggaca	ggaagcttga	360
ggacatcaca	aaagaatcca	taaaggaccc	atgatgcatt	gagagacaga	tacataagaa	420
tggctgggca	tagtagaaca	gatctgggtat	cattacagta	aatctccatt	atatggagtt	480
atctagaaac	attatcttcc	ttgctggctg	aagaaacata	gtaccctctc	aactaccctc	540
aaacaaaaaa	aaaaaaaaaa	actcgta				567

<210> 24
 <211> 586
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (28)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (550)
 <223> n equals a,t,g, or c

<400> 24						
nccgctctta	gaactagtga	tcccccgngc	tgcaggettg	ggggctccgg	ttccctgagg	60
gatgagcctt	cagcctccct	ttgtaatgct	gctcctctcc	actgcccagc	accatgagtt	120
gggtgcagac	acctagaagg	agagacttct	tggaaacgctc	atcccccgct	atacctcccc	180
ttcctcctgc	atctccccct	ctttccttcc	ccctcaggag	agagaaaact	tagtgcttcc	240
agcccttctt	ggagccttca	tgggtccagg	gtagggggccc	cactggcctg	agcatgccat	300
tttgagggga	gggtagtgtg	gcctacttat	cccctggcag	aggggatgcc	aggaccatgg	360
acatgaggct	tgcccatccc	tgccaactta	cacagcctgt	accactgtcc	ccccttccct	420
ggctactttg	acatgtgcct	gctcctggca	tttcaataaa	acccggcttg	ggtctgaaaa	480
aaaaaaaaaa	aaaaaaaactc	gagggggggc	cggtamccaa	ttcgccctat	artgaatcgt	540
attaaaattn	aatgggcggt	cgtttttaca	agtcgtgact	ggggaa		586

<210> 25
 <211> 1510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> n equals a,t,g, or c

<400> 25						
aggcgacgtg	ggccagatct	tctcctgcgc	cctgcaggnc	accaacaact	tcttcggcgc	60
cgggcagAAC	aagcgccgc	caagctgggc	magatcgccc	ggagcaagcg	ggttggtatt	120
gaagatgata	ggattgatga	cgtgctgaaa	aatatgaccg	acaaggcacc	tcctgggtgc	180
taactcccc	aaagacaatg	agttaaggga	gagaataaga	acggcggtaa	cagttattgg	240
caaaaagcat	gaaaagagaa	agcactttga	aattttattac	tagcttgcta	cccacgatga	300
aatcaacaac	ctgtatctgg	tatcaggccg	ggagacagat	gaggcgagag	gaggaggagg	360
aggaggagaa	ggctctgggc	tcctctgcaa	aaataaaaat	aaaaaaataa	ataaaatttt	420

aaaaataata	aaaattcact	atatacacat	ataaagaaat	aaaaagaagt	ctcagttgca	480
gctattttgtc	aaaattaata	tccattttctt	tttatatacg	gtgaatatattg	cgcaattata	540
gatctggatt	ttgaaccact	taatgaagcg	gcaacaccag	gtgtttttgag	gtgttgccat	600
tcttcgctga	tttggctgtt	cccaatgttt	acattatttta	atcttgcaaa	aatggttctg	660
tgcacttgga	tgtgaaatgc	tgtccagttt	tatttttttt	atgttgttat	ccttggtatg	720
acaaaaaatt	cagaaaatga	tctctgtaga	tattctgttt	tattttggtc	atcttttagaa	780
gttatcagga	atgtgtttta	aacaagaaga	gaactttttct	aaggaatgat	acatagaaaa	840
gatttttattt	taaaatgagt	tgtaaagctt	gtgttttcttt	gttgctgcaa	gctatctgcc	900
caagttaatg	caaatggaca	catttttttat	gtcagaaaaa	cacacacaca	cacacacaca	960
cacacacaca	cacacacaca	cgaaaaacaa	agaaaaaaat	gcttgagctt	tttctaactt	1020
ccccttgag	tctgttgtgt	gagcagcctg	tttattttctc	taattattatg	tcagttttatt	1080
ctctttaatg	gactgtaaaa	aaatgtaatc	acaagagtgc	caaatatctt	gaaatgccaa	1140
aaggcatttt	agttttctttt	ctctgtgctc	tgagtccacg	tacaggaatg	cttggtggtg	1200
ctttttctgtt	atttataggg	attctcttaa	ggcacaccag	ctgcctgttt	tgcatggtat	1260
ttgcaaaaat	gcctcttgcg	tgaggaaatc	ttttaccatt	ttttgtttgc	aactttggac	1320
ctcaagaggt	ttcccttccc	ttccccgttc	cctctttttct	taattcaata	ttctgtatgt	1380
tgcaccttga	accagcacac	agggctatatt	ctccaatgta	caataaaaaga	attgttcctg	1440
tgtctcaaaa	aaaaaaaaaa	aaaaaaactc	gagggggggc	ccgtacccaa	tcgcctratg	1500
atcgtatagc						1510

<210> 26

<211> 1014

<212> DNA

<213> Homo sapiens

<400> 26

aattcggcag	agattaactg	aagttcagcc	acctgccact	cctgactgca	tggaagccag	60
gtgcaaggag	aaaggatttt	raggagggga	ctccatggct	tccgagttgc	tgactgaccc	120
tccacctcag	aggtagttct	gacactgtct	cagttttgca	gatgaagatg	agattcttca	180
gttctccatg	tggaaaagca	gctgtggacc	cagccgaccg	ctgtaaggag	gtacagcaga	240
tccgcgacca	gcaccccagc	aaaatcccgg	tgatcatcga	gcgctacaag	ggtgagaagc	300
agctgcccgt	cctggacaag	accaagtttt	tggtcccggg	ccatgtcaac	atgagcgagt	360
tggtcaagat	catccggcgc	cgcttgacgc	tgaaccccac	gcaggccttc	ttcctgctgg	420
tgaaccagca	cagcatgggtg	agtgtgtcca	cgcccatcgc	ggacatctac	gagcaggaga	480
aagacgagga	cggcttctct	tatatgggtc	acgcctccca	ggaaaccttc	ggcttctgag	540
ccagcagtag	gggggctcgg	cctggggagtc	ggggggccccc	ggtcaggccc	tgcccagaga	600
gctcctgggt	cctgaaactga	gctgcctcta	ccgtgggtggg	ctgggcaggc	atgtgcccc	660
ctagtcaag	ggcaccaacc	cacctaytct	gcccctgggt	ggatcctggg	ccggtcgtgt	720
tagggttgct	cctctgggtg	ctggctgggtg	ggatggggga	gggtggggag	cagctcccag	780
cacccctgct	gtgtgggttca	tctttttttt	aggcccctgc	ctgtctgccc	atctgcccct	840
cacccacccg	aggctctgcc	caccgctgg	acctgccac	ccctgaaaga	ctggccccctg	900
gctccccgcc	cctcggtctc	cacgtgggtg	atggatctgt	ggtcattgtc	cctctgcaga	960
ataaagattg	ctcaggcctg	cctggaaaaa	aaaaaaaaaa	aaaaaaaaaa	actc	1014

<210> 27

<211> 1273

<212> DNA

<213> Homo sapiens

<400> 27

tcccccgggc	ctgcaggaat	tggcagacc	cgctgtataa	gatggcggct	tcctagttag	60
toggcggctg	atttagaagg	aggttcaggc	tacggtgagc	cgaaggagg	attctggctt	120
ccctgttcg	tgttccatct	agccacacag	gagccatgga	agtggcagag	cccagcagcc	180
ccactgaaga	ggaggaggag	gaagaggagc	actcggcaga	gcctcgcccc	cgcactcgct	240
ccaatcctga	aggggctgag	gaccgggcag	taggggcaca	ggccagcgtg	ggcagccgca	300
gcgagggtga	gggtgaggcc	gccagtgtct	atgatgggag	cctcaacact	tcaggagccc	360

gccctaagtc	ctggcagggtg	ccccgcgcag	cccctgaggt	ccaaattcgg	acaccaaggg	420
tcaactgtcc	agagaaagtg	attatctgcc	tggacctgtc	agaggaaatg	tcactgccaa	480
agctggagtc	gttcaacggc	tccaaaacca	acgccctcaa	tgtctcccag	aagatgattg	540
agatgttcgt	gcggaacaaa	cacaagatcg	acaaaagcca	cgagtttgca	ctgggtgggtg	600
tgaacgatga	cacggcctgg	ctgtctggcc	tgacctccga	ccccgcgag	ctctgtagct	660
gcctctatga	tctggagacg	gcctcctggt	ccaccttcaa	tctggaagga	cttttcagcc	720
tcatccagca	gaaaactgag	cttcgggtca	cagagaacgt	gcagacgatt	ccccgccat	780
atgtgggtccg	caccatcctt	gtctacagcc	gtccaccttg	ccagccccag	ttctccttga	840
cggagcccat	gaagaaaatg	ttccagtgcc	catattttctt	ctttgacgtt	gtttacatcc	900
acaatggcac	tgaggagaag	gaggaggagg	atgaagccat	tgagggttag	gccactgtct	960
gaaccatccc	tgtacatctg	caccttcttg	tgcaaggaag	tccttggcct	aaagccttgg	1020
ttctcaaact	gggttccttg	ggacctccgg	gggtggggggg	ttccaggagg	cacgtagggt	1080
accttgcagg	gtcctaggag	ggaaaccag	gattccagga	gggatcccag	gaactgtggg	1140
caccatcttt	ctgtgtctcc	cagcccatctt	ccactcctag	tttgtcatgg	ataatttttg	1200
ttcttccctg	tgtgattttt	gccatcaaaa	taaaaatttg	agactcgta	aaaaaaaaaa	1260
aaaaaaaaact	cga					1273

<210> 28

<211> 780

<212> DNA

<213> Homo sapiens

<400> 28

gaattcggca	cgagcggacg	ggacagggga	cctggctggt	gagctgtcca	agaccgaccc	60
ggcgagcctg	gagacaggcc	aggacagtga	ggatgactca	ggcgagccag	aggactgggt	120
cccggaccct	gtggatgccg	atccagggtta	gcttgcccca	catggctcct	ttcaccagt	180
tggggggcgc	ttcagccagg	ccgtccgctc	tggactcatc	ccttgtcaca	gagcttggct	240
gtgtcagggtg	tgcctagtgt	ctcagaggct	tgagggtgtc	aaaggtcagg	gcagtgtctc	300
gccacctgcc	agcctgggca	ggccgggtgat	gggctgtttt	cctctgtggc	tggctactct	360
ggccgtgggg	gatgccctgc	ctcccaccgc	ttgtgagctg	tggggtgtcc	ctgccccgcc	420
actgcacctg	gcagaggagt	gaagatgtgg	gtgacccttg	agctctgtac	tgatttgggc	480
ctcaaagtcc	cgttaggggtg	ccagctcctg	ctcagagccc	atctgtgcct	ggccctcgtc	540
tgcgagggtc	ctgagggtcg	tggggcccag	gcctggcccc	tgccctggca	cagatggtaa	600
gtcttcaaca	catctttagt	ctctctcaga	ggaaaacccc	aggacctttg	gcttgtcccc	660
taagcctgca	tgggagtcct	ggaaggctcc	tgtgggggtga	gaggggctgg	ggattgaagc	720
tgttgctcca	ggacctgact	ccaggctctc	cgggaggctc	agggctgctc	ccagcctcga	780

<210> 29

<211> 819

<212> DNA

<213> Homo sapiens

<400> 29

gaattcggca	cgaggagaat	catgggcctc	tggctgggca	tgctggcctg	tgtcttctctg	60
gcaactgctg	cctttgttgc	ttatactgcc	cggctggact	ggaagcttgc	tgagaggag	120
gctaagaaac	attcaggccg	gcagcagcag	cagagagcag	agagcactgc	aaccagacct	180
gggcctgaga	aagcagtcc	atcttcagt	gctacaggca	gttcccctgg	cattaccttg	240
acaacgtatt	caaggtctga	gtgccacgtg	gacttcttca	ggactccaga	ggaggccac	300
gccctttcag	ctcctaccag	cagactatca	gtgaaacagc	tggtcatccg	ccgtggggct	360
gctctggggg	cggcgtcagc	acactgatgg	tggggctcac	ggtcaggatc	ctagccacca	420
ggcactagca	aagaagcctt	gaaatagaaa	gccaggagt	gctgtcccca	gtatgcaaac	480
acaccagcgt	ctgccctgca	aaaacaccaa	tggggcttag	tgagggtgga	cactttgaac	540
cactcctcaa	aaaaagaact	ttggctgat	ccttgtgtgt	acactcagag	gggtctgaac	600
agacttgaca	attctgttct	ggtcaagctg	gagttttctt	ctgtgacttg	gactgctcta	660
cagaagacat	cagccaactg	cacgagtcag	agtccaggga	ttgtcactat	tattaataat	720
gtaaatggct	tcaaatggga	cactgcagat	aammycacia	aaaccactgt	tatattaaag	780

attacacatt tcctggaaaa aaaaaaaaaa aaaactcga

819

<210> 30

<211> 608

<212> DNA

<213> Homo sapiens

<400> 30

gaattcggca	cgagcttcac	tccttggtcc	ctctcctgca	cacacacaca	cacacacaca	60
ccccaggaga	ctctacccca	actcagccct	aaccagcccg	aacaaccttc	agtggtctccc	120
cagtgcctga	agaatatgat	ccaaactttc	cctgcctacc	tctgtcttcc	cctttttttac	180
gtgctggacc	tggcccttgc	ttctgctcct	gtactttctc	attcagctct	cctctgacat	240
gtttttcttc	ttccccacaa	ggccagcaaa	aatatcacct	cctccaggaa	gtcctccatg	300
accagtgagc	wcaccaggaa	cttctgcttt	tgagccccc	gaaagagcca	tgctgcagaa	360
gtctcccat	gctgcttcta	acccaaataa	agtacaggag	aggagttcag	gaaaaagtct	420
agagccaggc	acagcagtac	acgcctctac	tctcagctam	tcgggaggct	gaggtgggag	480
gattgcttga	accaggagt	ctgaggctgc	tatgcaytat	gatcacacct	gtgattagcc	540
actgtactcc	agcctgggca	acatagcaag	aacctgtttc	ttaaaaaaaa	aaaaaaaaaa	600
aactacga						608

<210> 31

<211> 1217

<212> DNA

<213> Homo sapiens

<400> 31

cgttacacat	gacaccagt	cctttgtttc	attgggctgg	gctctctgga	aggtgtgctg	60
ctgcctgagc	tgctggaaaa	gcactgacag	gtgtttgcta	gaaaagcact	cctggagctt	120
gccaccagct	tggacttcta	gggactttcc	tctcagccag	gaaggatttt	gatattcatc	180
agaaatacct	ccagaagatt	caaggagctg	tagaggtgaa	gtaagcctgt	gaaggaccag	240
catgggaatc	ctatactctg	agcccatctg	ccaagcagcc	tatgcagaat	gactttggac	300
aagtgtggcg	gtgggtgaaa	gaagacagca	gctatgocaa	cgttcaagat	ggctttaatg	360
gagacacgcc	cctgatctgt	gcttgaggc	gagggcatgt	gagaatcggt	tccttccttt	420
taagaagaaa	tgctaattgtc	aacctcaaaa	accagaaaga	gagaacctgc	ttgcattatg	480
ctgtgaagaa	aaaattttacc	ttcattgatt	atctactaat	tatcctctta	atgcctgtyc	540
tgcttattgg	gtatttcctc	atggtatcaa	agacaaagca	gaatgaggct	cttgtagcaa	600
tgctacttga	tgctggtgtc	gaagttaatg	ctacagattg	ttatggctgt	accgcattac	660
attatgcctg	tgaatgaaa	aaccagtctc	ttatccctct	gctcttgga	gccctgacag	720
acccacaaat	aaagaataag	catggtgaga	gctcactgga	tattgcacgg	agattaaaat	780
tttccagat	tgaattaatg	ctaaggaaag	cattgtaatc	cttgtagcca	caccgatgga	840
gatacagaaa	aagttaacga	ctggattcta	tcttcatttt	agacttttgg	tctgtgggcc	900
atttaacctg	gatgccacca	ttttatgggg	ataatgatgc	ttaccatggt	taatgttttg	960
gaagagcttt	ttatttatag	cattgtttac	tcagtcaagt	tcaccatggc	cgtaatcctt	1020
ctaagggaaa	cactaaagt	gttgtagtct	ccacttcagt	cagaaactga	tgtttcagct	1080
aggcacagt	gtacatgcct	gtaatcccag	ctacttgga	ggctgagggt	ggaggatcac	1140
ttgaactcag	gagtttgaga	gcagccaggg	caacacagcg	agaccctgtc	tcaaaaaaaaa	1200
aaaaaaaaaa	aactcga					1217

<210> 32

<211> 765

<212> DNA

<213> Homo sapiens

<400> 32

ccacgcgtcc	ggtgaggctc	catgtctgct	tatgcgggtg	ctcgtctgct	agaacaggga	60
------------	------------	------------	------------	------------	------------	----

accattggag	atactcatta	ctctttgaag	gcttacagtg	gaatgaattc	aaatacgact	120
tattttgagga	attgaagttg	actttatgga	gctgataaga	atcttcttgg	agaaaaaaag	180
actggtactt	ctgaattaac	caaaatcaca	gtattctgaa	gatgattcta	caaagcctgc	240
tgttttctaca	aaggctgctg	atgatttcta	caaagcctgc	tgtagtggtg	ctgtggcctc	300
tgcttaaaaa	agtagaaaac	acattgatgc	agcatgttca	ccccaacctc	cctgcctaaa	360
ggctcagggg	ccatcttgga	agaggaaggc	gcgtgagatt	gtaagagccg	aattaggggg	420
atggagtgtg	gagaataagg	acacttcac	ttggatgctc	acctgccaaa	ttgacttctg	480
atgaaagcca	gctccagaaa	tgtgcctaca	gttactactt	tcacctaaac	cctgccctta	540
gtcaaatacct	tctcttcttc	taagcaatca	acttcaattc	cttggtataac	ccacagtata	600
aaagggcttt	tataccattc	tatcctattg	catgtaagcc	ttgggtctgg	gaggtaacag	660
tgtgggattc	caccatctca	tctccctgcc	acccaaacat	gcctgctctt	ctttaagcaa	720
tattaaatgt	ttgtacttca	gaaaaaaaaa	aaaaaaaggg	cggcc		765

<210> 33

<211> 752

<212> DNA

<213> Homo sapiens

<400> 33

actgaacagt	ggttaatcct	gactctgttt	ttgactgaca	gttaacagtt	acatgaacca	60
ttcatattac	agctcttact	taaatttgac	caagccagga	tatatctggt	aggccacatt	120
catttaggga	tcatgttttc	caaagcaggt	ttgggcaaaa	ttaatccaca	ggactgaaag	180
gtatacatct	gtgagttttg	ttctcacttc	cacctcta	ttgaagaaca	ctttaattga	240
cacagaatac	atttcacata	tttaacctct	acaataagtt	ctgacacatt	ttccatgaaa	300
caaaccatcg	ctatatccaa	gataatgaac	ctatctatca	tactcccaaa	ttccttctkg	360
catctttgta	atttctcact	cttctctctc	cctctccccg	tcccatccca	accactgatc	420
tgctcaggca	actaccaatc	ttctttctgt	cactatagat	taatttgcat	ttttaaagaa	480
atttacatac	atggaaccat	acatcatcta	tgctttgtag	tatgactcct	gtcactcagt	540
acaattatct	tgagattcat	ttatgttawt	gtatgtatca	atagttcatc	ccttttattg	600
gtaagtaaca	tttttttgta	taggtatacc	atgatttggt	gatgaacaaa	tttacctggt	660
gatgaacatt	tacgttggtt	ccaagatttt	tgctattgaa	aataaagttt	ttatgaatat	720
ttatatatat	aaaaaaaaaa	aaaaaaactc	ga			752

<210> 34

<211> 2265

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2162)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2258)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2265)

<223> n equals a,t,g, or c

<400> 34

aaattttctca	acaccacagt	cakctwagtc	acctactgcc	accttcgaaa	aacacggaga	60
gcacctaccc	agaggagaag	gtagatttgg	agtaagccgc	cgtcgacata	attcctctga	120
tggttttttt	aacaatggtc	ccctacgaac	tgcaggagat	tcttggcacc	agscctccct	180
gttccgccat	gattctgtgg	actctgggtg	ctctaaggga	gcatatgctg	gaatcacagg	240
gaacccatct	ggttggcata	gctcttccc	aggtcatgat	ggcatgagcc	aacgtakggn	300
aggtggcaca	gggaaccatc	gccattggaa	tggcagcttc	cactcccgga	aaggggtgtgc	360
ttttcaggaa	aagccaccta	tggagattag	ggaagaaaag	aaagaagaca	aggtggaaaa	420
gttgacagttt	gaagaggagg	actttccttc	cttgaatcca	gaagctggca	aacagcatca	480
gccatgcaga	cctattggga	caccttctgg	agtatgggaa	aacccgccta	gtgccaagca	540
accctccaag	atgctagtta	tcaaaaaagt	ttccaaagag	gatcctgctg	ctgccttctc	600
tgctgcattc	acctcaccag	gatctcacca	tgcaaatggg	aacaaattgt	catccgtggg	660
tccaagtgtc	tataagaacc	tggttcctaa	gcctgtacca	cctccttcca	agcctaattgc	720
atggaaagct	aacaggatgg	agcacaagtc	aggatccctt	tcctctagcc	gggagtctgc	780
ttttaccagt	ccaatctctg	ttaccaaac	agtggtagct	gctagtgggtg	cagctctgag	840
ttctcccaaa	gagagtcctt	ccagcaccac	ccctccaatt	gagatcagct	cctctcgtct	900
gaccaagttg	acccgccgaa	ccaccgacag	gaagagtggg	ttcctgaaaa	ctctgaagga	960
tgaccggagt	ggagacttct	cagagaatag	agactgtgac	aagctggaag	atttggagga	1020
caacagcaca	cctgaaccaa	aggaaaatgg	ggaggaaggg	tgtcatcaaa	atgggtcttgc	1080
cctccctgta	gtggaagaag	gggaggttct	ctcacactct	ctagaagcag	agcagaggtt	1140
attgaaagct	atgggttggc	aggaatatcc	tgaaaatgat	gagaattgcc	ttcccctcac	1200
agaggatgag	ctcaaagagt	tccacatgaa	gacagagcag	ctgagaagaa	atggcttttg	1260
aaagaatggc	ttcttgcaga	gccgcagttc	cagtctgttc	tccccttggg	gaagcacttg	1320
caaagcagag	tttgaggact	cagacaccga	aaccagtagc	agtgaacat	cagatgacga	1380
tgccctggaag	taggcatata	aatgctcaca	gttaaactctg	acccagtaaa	ctctgtgtgt	1440
ttagggagta	tacaaaagaa	atcgttcttt	tccttttctt	atgttgttga	atacttcatt	1500
cacaagggaa	ataatcatat	cccaaagaga	gagcaattgg	cttgttttgc	ttttgttatt	1560
gttcttccct	gttatctgct	ttatagagag	aagtttgtgt	gggtgggacag	atttttttaa	1620
cacactcaya	cacacacaca	catacacacc	cagtatatat	ggggcgatgc	acaggtagga	1680
gctggcagtg	caggggaagag	gagacactgg	tctgcagcaa	cagcttctac	taccagccct	1740
tggggcactc	acccctgtga	tcaagcaatc	attgtcaatg	acaaagtga	tattgaagtt	1800
ataattgtat	taaattaatg	ctaataattt	ggatatttta	ttttattttt	ggctgctcgg	1860
gtaacttttag	cccttaacca	agcatatgtg	ggtttttttg	gttgtttttt	tttgtttttt	1920
ttttcttttt	ccttttttgg	tacagctgta	aaatatattg	atataggaaa	tgttgtgtta	1980
ttcttgcagc	cttgatattc	aggggtggatt	gtaaaatata	aatttttgtg	agatttcaaa	2040
gattaagatt	attttgataa	cattattttac	agatttataa	gatgtgggta	tcacaagtct	2100
cgagggggaa	actactgcat	aaaataacta	acttgggaata	aatattttgc	atcagtttgg	2160
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2220
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	gggggggncc	ccccn		2265

<210> 35

<211> 643

<212> DNA

<213> Homo sapiens

<400> 35

gaattcggca	cgagctgctg	tggggccaaa	cgcacatga	aggaagctct	ccactgggccc	60
cttttcagca	tgcaagccac	ggggccacgtg	ctgcttcacc	tcctgttacc	tgacgcagct	120
cctcgatgcc	acagaggacg	ggcatcccc	caagggcaag	gcctcatccc	tcaccccgc	180
ctgtctgaag	atactgcaat	gaaagcccaa	gccctagctt	tccccagtga	aggactagac	240
taggggcccc	acgctcaact	ggtagtggcc	acaagcctgg	cagctgtaga	gccgctaacc	300
tcccgcaccc	tccctcacca	cacaggaccc	tgagttagga	ggaggggctg	gaaacctggg	360
rtgggttggc	caaaggagaa	cctcaggctc	ctggcctggc	ccagctcctt	cctgcccagg	420
gtagcttagc	ccatccagac	tggtcctgaa	gtctgtccct	ccattggcat	gaagtctgcc	480
cctcagcagt	ccggcctcac	aggetgtact	ttcatgggtg	tctctacctt	ctggccccca	540

ttccagaaca	ttcgtgagt	aattcgcaag	catactagca	tgtgatatta	gggagtttgc	600
aataaattat	tgatgctgaa	aaaaaaaaa	aaaaaaaaa	act cga		643

<210> 36

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 36

cctccggcgg	gagccacctc	tccggggcgc	atcatcckgc	ccsscagtgc	tgtccttatt	60
cccagcccag	tcaagagcta	ccggggctgg	ctagtcatgg	gggagcccag	tagagaggag	120
tataaaatcc	agtcctttga	tgacagagacc	cagcagctgc	tgaagacagc	actcaaagat	180
ccgggtgctg	tggactttga	gaaagtggcc	aatgtgattg	tggaccattc	tctgcaggac	240
tgtgtgttca	gcaaggaagc	aggacgcatg	tsctacgcca	tcattcaggc	agagagtaaa	300
caagcaggcc	agagtgtctt	ccgacgtgga	ctcctcaacc	ggctgcagca	ggagtaccag	360
gctcgggagc	agctgcragc	acgctccctg	cagggctggg	tctgctatgt	cacctttatc	420
tgcaacatct	ttgactacct	gagggtgaa	aacatgcca	tgatggccct	ggtgaaccct	480
gtctatgact	gcctcttccg	gctggcccag	ccagacagtt	tgagcaagga	ggaggagggtg	540
gactgttttg	tgtgcagct	gcaccgggtt	ggggagcagc	tgagaaaaat	gaatgggcag	600
cgcatggatg	agctctttgt	gctgatccgg	gatggcttcc	tgctcccaac	tggcctcagc	660
tccctggccc	agctgctgct	gctggagatc	attgagttcc	gggcggccgg	ctggaagaca	720
acgccagctg	cccacaagta	ttactacagc	gartctccga	ctaggcytcc	agatcagggc	780
ttcctcacca	gcactggcct	ttcttctacc	cacctctaaa	gctggcagtg	gagtctctgc	840
ctcaccctaa	gacttttccc	ttccagactt	tgagtgtctt	cccttctaga	ctttcccatc	900
tcctgggtgag	atgttttcca	cttatgccgt	ggtcctgccc	tgagccctt	tccccaccac	960
aaccaccac	ggccaggcag	agaagggcaa	ctcccaagag	ccactgcact	gtgtaaccat	1020
tagtgcaact	actaccttgg	tgctcagtt	tacccatctg	taaaatgggt	aagcatagcc	1080
actggtggga	tatttttggga	tgtcaagggg	tggaggcaga	gcacaagtca	caccagaaac	1140
tgctttttat	acatttttga	taaggacaac	tctggaaaca	agcctatttc	ctccagccag	1200
tttctactgaa	tgctgcacca	catgctacac	cagttcagcg	tgagaatttt	ctaataaatc	1260
ttttctgata	ctaaaaaaaa	aaaaaaaaa	aaaaaaactc	ga		1302

<210> 37

<211> 2708

<212> DNA

<213> Homo sapiens

<400> 37

agcggacgga	ggagtcttct	gccgtgcagt	acttccagtt	ttatggctac	ctgtcccagc	60
agcagaacat	gatgcaggac	tacgtgcgga	caggcaccta	ccagcgcgcc	atcctgcaaa	120
accacaccga	cttcaaggac	aagatcgctt	ttgatgttgg	ctgtggctct	gggatcctgt	180
cgttttttgc	cgcccaagct	ggagcacgga	aaatctacgc	ggtggaggcc	agcaccatgg	240
cccagcacgc	tgaggtcttg	gtgaagagta	acaacctgac	ggaccgcac	gtggtcatcc	300
cgggcaaggt	ggaggagggtg	tactccccg	agcagggtgga	catcatcatc	tccgagccca	360
tgggctacat	gctcttcaac	gagcgcagtc	tggagaceta	cctccacgcc	aagaagtacc	420
tgaagcccag	cggaaacatg	tttccctacca	ttggtgacgt	ccaccttgca	cccttcacgg	480
atgaacagct	ctacatggag	cagttcacca	aggccaactt	ctggtaccag	ccatctttcc	540
atggagtggga	cctgtcggcc	ctccgagggtg	ccgcgggtgga	tgagtatttc	cggcagcctg	600
tggtggacac	atgtgacatc	cggatcctga	tggccaagtc	tgtcaagtag	acgggtgaact	660
tcttagaagc	caaagaagga	gatttgcaca	ggatagaata	cccattcaaa	ttccacatgc	720
tgacttcagc	gctggtccac	ggcctggctt	tctggtttga	cgttgctttc	atcggctcca	780
taatgaccgt	gtggctgtcc	acagccccga	cagagccctt	gacccactgg	taccagggtgc	840
ggtgcctgtt	ccagtcacca	ctgttcgcca	aggcagggga	cacgctctca	gggacatgtc	900
tgcttattgc	caacaaaaga	cagagctacg	acatcagtat	tgtggcccag	gtggaccaga	960
ccggctccaa	gtccagtaac	ctcctggatc	tgaaaaaacc	cttcttttaga	tacacgggca	1020
caacgccctc	acccccaccc	ggctccact	acacatctcc	ctcggaacac	atgtggaaca	1080

cgggcagcac	ctacaacctc	agcagcggga	tggccgtggc	agggatgccg	accgcctatg	1140
acttgagcag	tggtattgcc	agtggctcca	gcgygkcca	caacaacctg	attccttttag	1200
ggctcctccg	cgcccagggg	agtgggtggg	gcagcacgag	tgcccactat	gcagtcaaca	1260
gccagttcac	catggggcgg	cccgcatctc	ccatggcgctc	gcccattgtcc	atcccagacca	1320
acaccatgca	ctacggggagc	tagggggccc	ccccgcggac	tgacagcacc	aggaaaccaa	1380
atgatgtccc	tgcccgcgcg	ccccgcggg	cggttttccc	ccttggtactg	gagaagctcg	1440
aacacccggt	cacagctctc	tttgctatgg	gaactgggac	actttttttac	acgatgttgc	1500
cgccgtcccc	accctaacc	ccacctcccc	gccctgagcg	tgtgtcgctg	ccatattttta	1560
cacaaaatca	tggtgtggga	gccctcgctc	cccctcctgc	ccgtctacc	ctgacctggg	1620
cttgtcatct	gctggaacag	gcgccatggg	gctgcccagc	cctgcctgcc	aggctccctta	1680
gcacctgtcc	ccctgcctgt	ctccagtggg	aaggtagcct	ggccaggcgg	ggcctcccct	1740
tcgacgacca	ggcctcggtc	acaacggacg	tgacatgctg	cttttttttaa	ttttattttt	1800
ttatgaaaag	aaccagtgtc	aatccgcaga	ccctctgtga	agccaggccg	gccggggccga	1860
gccagcagcc	cctctcccta	gactcagagg	cgccgcgggg	aggggtggcc	ccgccgaggc	1920
ttcagggggc	ccctccccac	caaagggttc	acctcacact	tgaatgtaca	accaccccca	1980
ctgtcgggaa	ggcctccgtc	ctcggccccct	gcctcttgct	gctgtcctgt	ccccgagccc	2040
ctgcaggtcc	ccccccgccc	ccccactcaa	gagttagagc	agggtggctgc	aggccttggg	2100
cccgagggga	aggccactgc	cggccacttg	gggcagacac	agacacctca	aggatctgtc	2160
acggaaggcg	tcctttttcc	ttgtagctaa	cgttaggcct	gagtagctcc	cctccatcct	2220
tgtagacgtc	ccagtcccta	ctactgtgac	ggcattttcca	tcctccccct	gcccgggaag	2280
ggaccttgca	gggacctctc	cctccaaaaa	aagaaaaaaa	gaaaaagaaa	gaaaaataaa	2340
atgaggaaaac	gtgttgacgc	acaggcagtt	ttcttctcct	tctgctcccc	tgtttctcat	2400
acccccaaac	tcagatgctg	gagctcaggc	ccgcctgtgt	tgaccccagg	caggagcggg	2460
cgctgtccag	gctgggcccgc	ccccttggtc	ctccctcctg	ttccagggga	gccataggag	2520
ggaaagcagg	tgggccgggg	gggatatggg	gccccagccc	tgtcccaaag	ctccctgctc	2580
ggctgcccc	cgcccgccct	tatataaatt	ctctgaatca	cctttgcata	gaaaataaaa	2640
gtgtttgctt	tgtaagaaaa	gtctggaaag	taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2700
aaaaaaaaa						2708

<210> 38

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> n equals a,t,g, or c

<400> 38

ccctcactaa	ggggacccaa	agctggagct	ccaccgcggt	ggcgcccgct	ctagaactta	60
gtggatcccc	cgngctgcag	gaattcggca	cgagaaacac	tgaaattggg	cagagtagaa	120
gtcagcattt	agtgcagcca	aataaaatta	gtaatgggca	agctgctgtt	tcctttgctt	180
ttagctccat	tttctcccat	aaacaaatat	attcttctact	ttgcaagaga	tggagtagaa	240
gaagttttga	aatttgtatc	ctaaatttagc	ttcaagtaag	tgccctaaaga	gacctctttc	300
ccttaaaacc	tgtaaatcag	ttaaaggcgg	ggaacactgg	tgccctttttt	tttttttttt	360
taacttctta	accaagggac	agtgaagact	tttaagttag	atctgatttt	agaattgcag	420
ttgaggtagt	gcctagtgtg	tgaatttgag	gtcattttct	aaactggccg	ggcacagtgg	480
ctcatgcctg	taatcccagc	actttggggag	gcccggtggg	gagaatcact	tgagtccagg	540
agtttgatac	cagcctgagc	aacacaggga	gaccccatct	ctacaaaaaa	aaaaaaaaaa	600
aaactcga						608

<210> 39

<211> 925

<212> DNA

<213> Homo sapiens

<400> 39

gaattcggca	cgagagaaat	tctgcccgcc	tctgtaaggc	acagtacaca	cataagacat	60
gcttggtgta	gctgtgatct	ttcttcatgg	cgctggggct	atgaactatc	taattgctaa	120
gattctggag	gtgcagggcc	tcagggaggt	gccatgcaca	tacaatacaa	ggggtatagc	180
gccccctgga	ggcaacgttg	gatttgaagc	agccagtgtg	gtggacaggc	cttgtgggca	240
gtgaggaggc	ctgattctaa	ccttgggcct	gcagagaact	ccctggctat	ggaactcagg	300
ggcagatctc	accgaacttc	tctgggcctc	aaatccacat	ctgtaaaagg	aaggggttgt	360
actctcaatg	gttctaaaac	tccttctctt	cctctgtccc	ttcctttctg	catcttcttg	420
gcagaatcct	ttcctcaaat	cagtgtctcg	atagaccctt	aatacagtta	acagctgaag	480
gtggagagtc	tctgttggaa	gtgggtcttg	gcctaagcct	ccctcattga	cccattgatga	540
ctgcmcagaa	gagatttcca	aactcctccc	agccctagca	gttatgggtc	cagggcctca	600
tactgagaa	cagccccaca	ccagtttact	tttcattttt	tagagtgagg	gttttactct	660
gtcacctagg	aggcggaggt	cagaatgagt	tgagatcaca	ccactgcact	tcagtctggg	720
caacagagtg	aggctctgtc	tttaaaaaaa	aaaaaaaaaa	aagaaagggc	tggctgtggg	780
ggctcactcc	tgtaatccca	atcccagcac	tttgggaggc	tgaggcgggc	ggatcgccctg	840
aggtcgggaa	ttcaagacca	gcctgaccaa	tatggagaaa	ccccgtctct	actaaaaata	900
caaaaaaaaa	aaaaaaaaaa	tccgc				925

<210> 40

<211> 1219

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (599)

<223> n equals a,t,g, or c

<400> 40

ggnacagagc	cgcgggcgga	agtcgggttc	cgtgacgcgg	cgcgccccaa	gggcccggctc	60
cgttgaggga	agggaaagccc	gccccgttgn	ggctggggct	ggctgctggg	aggaggtggt	120
gggctgggtc	ggacgtgggt	cgaggctgta	gcaggactcc	aggaagatgt	taccgagtac	180
ttcagtgaat	tccttagtg	aggggaacgg	agtcttgaat	tccagggatg	cggcaagaca	240
cacagccgga	gcgaaacgct	acaaatatct	gagaaggctt	ttccgctttc	ggcaaatgga	300
ctttgaattt	gctgcctggc	agatgctcta	cctgttcaca	tccccacaga	gagtttacag	360
aaattttcat	tatcgaaaac	agacgaagga	ccagtgggcc	agagatgacc	ctgctttctt	420
ggctcctgta	agtatctggc	tctgtgtgtc	cactatagga	tttggctttg	tgctggacat	480
gggattcttt	gagacaataa	agcttctcct	ttgggttgta	ctcatagatt	gtgtaggcgt	540
tggtcttctg	atagcaactt	taatgtgggt	catctctaac	aagtatttag	tgaaacganc	600
agagcagaga	ctatgatgtg	gaatggggct	atgcttttga	tgtgcatctc	aatgcttttt	660
atccactcct	ggtcattttg	catttttatcc	agcttttttt	catcaaccat	gttatcctga	720

cagacacatt	tattggatat	ttagttggaa	ataccttatg	gttgggttga	gttggctatt	780
atatctatgt	aactttcctg	ggatacagtg	cattgccatt	tttgaaaaat	acagtaattc	840
ttctgtatcc	atttgcacct	ctgattctgc	tctacgggct	tcccctggca	ctgggatgga	900
aacttcacca	tactctctgt	tctttctata	agtacagagt	gaaataaaaa	gtgagaagaa	960
gattcaatcg	taactgtgtc	aacagtattg	tgaagtgtatc	atttcttgta	aaacttgtaa	1020
ataaactatc	atctttgtag	atatcttaaa	ggtgtaaagt	ttgcaaattt	gaagaaatat	1080
atattaacac	tgtggtcagg	tacattcctt	aaaactaatt	aaatgtacat	ttctataata	1140
aatatttttt	aaactaaaaa	aaaaaaaaaa	aaactcgagg	gggggcccgg	tacccaattc	1200
gccctatagt	gagtcgtat					1219

<210> 41
 <211> 1724
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (371)
 <223> n equals a,t,g, or c

<400> 41	
agaggggcta	tgattcggag ggttctgccg cacggcatgg gccggggcct nttgaccggg 60
aggccaggca	cgmgcrgagg aggccttttcw cwsgtattca caggcctcca ctgggctctc 120
agtaggtggg	atttgtcagc agttctcatt gcttgagaac atccagctct cctctttttc 180
agccagcttt	ctacggaaca tcaatgagta cctggccgta gtcgatgctc ctcccctgga 240
cctccggttc	aacccctcgg gctacctctt gctggcttca gaaaaggatg ctgcagccat 300
ggagagcaac	gtgaaagtgc agaggcagga gggagccaaa gtttctctga tgtctcctga 360
tcagcttcgg	naacaagttt ccctgggata aacacagagg gagtggcttt ggogtcttat 420
gggatggagg	acgraggttg gtttracccc tgggtgtctgc tccaggggct tcggcgaaag 480
gtccagtcct	tgggagtcct tttctgccag ggagaggtga cacgttttgt ctcttcactc 540
caacgcattg	tgaccacaga tgacaaagcg gtggtcttga aaaggatcca tgaagtccat 600
gtgaagatgg	accgcagcct ggagtaccag cctgtggaat gcgccattgt gatcaacgca 660
gccggagcct	ggtctgcgca aatcgagca ctggctgggtg ttggagaggg gccgcctggc 720
accctgcagg	gcaccaagct acctgtggag ccgaggaaaa ggtatgtgta tgtgtggcac 780
tgcccccagg	gaccaggcct agagactccg cttgttgcag acaccagtgg agcctatatt 840
cgccgggaag	gattaggtag caactaccta ggtggtcgta gcccactga gcaggaagaa 900
ccggaccggg	cgaacctgga agtggaccat gatttcttcc aggacaaggt gtggccccat 960
ttggccctga	gggtcccagc ttttgagact ctgaaggttc agagcgcttg ggccggctat 1020
tacgactaca	acacctttga ccagaatggc gtggtgggccc cccaccgct agttgtcaac 1080
atgtactttg	ctactggctt cagtggtcac gggctccagc agggcccttg cattgggcga 1140
gctgtagcag	agatggtagt gaagggcagg ttccagacca tcgacctgag ccccttcctc 1200
tttaccggct	tttacttggg agagaagatc caggagaaca acatcatctg agcatgtgtg 1260
ctctgcactg	gctccactgg cttgcatcct ggctgtgttc acagccttgt ttgctgcttc 1320
catcttcccc	agtactgtgc caggccttct cccctcccc agtgtcctct cctctcaggc 1380
aggccattgc	acccatatgg ctgggcaggc acaggcagtg agggccaggc caatagcgag 1440
tgatgagcgg	gatcctagga ctgatctgta gcccatgctg atgtcaccca ccagggaat 1500
ccatctggag	gcctgagcac cctggcccag gactggcttc atcctggcac tgaccaggaa 1560
agactgcctc	tgaccctctt agcagacaga gccaggcatt gggagcactc tggggcagcc 1620
tggctcaggt	ttattgattt tcgtctgttt accctatcca ttaatcaata catgtaatta 1680
actccttcaa	aaaaaaaaaa aaaaaaaatc gcaggggggt cccg 1724

<210> 42
 <211> 798
 <212> DNA
 <213> Homo sapiens

<400> 42
 tcgacccacg cgtccgactt cggaaactga ataaggtgat tagtgacctg actccagtca 60
 gtgagcttcc cttaacagcc cgaccaaggt caaggaagga aaaaaataag ctggcttcca 120
 gagcttgtcg gttaaagaag aaagcccagt atgaagctaa taaagtgaaa ttatggggcc 180
 tcaacacaga atatgataat ttattgtttg taatcaactc catcaagcaa gagattgtaa 240
 accgggtaca gaatccaaga gatgagagag gacccaacat ggggcagaag cttgaaatcc 300
 tcattaaaga tactctcgga tttgtcctac agcttagtat tgtggttgac agcgatacta 360
 gggctgacag cacagaagtc acaagagaag agtggaaggg caagaattca aagcatttgt 420
 tcatacaatg tggcaacctc ttttgcatag ttgcgtagga tcctgtttgt aatgctatca 480
 taaatattct gtagtttttt ttttttctct cccaactgga gctatgacac tttttattgg 540
 attcagtctt gtctcttgtc tagaaagaac tttatcttgt tgacgcatga gctgtttaaa 600
 aattatccta ttaaagtgtg gttaatatgt gtgcagtttt tcatttcaga tggaaaggca 660
 atgcaaatgt tgcctttgtt ttctgtcacc ttccaacccc tgagcacttc tagtcagata 720
 cagattcatc agtgtatgca acatcctttg taatttaaaa taaaaaaaga tgaaaaaaa 780
 aaaaaaaaaa gggcggcc 798

<210> 43
 <211> 693
 <212> DNA
 <213> Homo sapiens

<400> 43
 ggtcgaccca cgcgtccgca aaaaggaatg ctttccctaa tgtcccatct tcatgtccag 60
 caacatttgt cttccatcct attgatccta atagtctttg cttccctaag caatccattc 120
 ctaaaccat aactggcaag aaaaataaga ttaccatgat tggctctagg ggttgcaaaa 180
 ctttttctta aagggaaga cagtaaatat tttatgcttt gcagtctatc tggctctgtg 240
 tgcaactatt caactctgct gtaatagcaa caatagacaa taaataaata aataaataaa 300
 tggatgtggc tgtattttttg taaaacttaa ttacagaag caggtggtaa gcccatgggc 360
 catagtttgc taacccttgg aaccttagac cagtaactct gaaacattag catttggttag 420
 aatcmactgg ggacttggtt aaatacmaga tcccatcctg gktgctggtt cagcatatct 480
 gggatagagc cagtgaattt gcatttctaa taatttccca ggtaatgctg aggctgtgaa 540
 ttcaagaacc tcacttaaat atatttctct attgtggggc tatcctgtgc attgtaggat 600
 gtttcacagc atccctggcc tctaccact agatgccagt agccaccctg cctctcctct 660
 agtatgacga gaaaaaaaaa aaaaaaggcg gcc 693

<210> 44
 <211> 1358
 <212> DNA
 <213> Homo sapiens

<400> 44
 ggcagagggga acaaacaaac aaaaaaggca aaattggagc tgtccaggcc aggacacccc 60
 gatgtccagg ggcttccata cgaacaggca catgggctgg gaagtacatg agggccctgg 120
 gtagaagggg ctgtcagttc tctcctccct tgccctctgg ragggctctc ctaacatagc 180
 ttccaggagg tgggaggagc agttactgtc agcagggtgt agccagggtg cagcttctcc 240
 tggggatctc tagatgtctg cttgtgattt ttggcaagta tatgcaaatg agcctcctct 300
 cctgccttga gacaagtatc tgcagtgtga acctggcagc ctccagacca agggggtcag 360
 aggaaacttc tctggtttct agagctctgt gctccttcag agaagtcttc ctcccttcca 420
 gtcagtgtcc ctgtgaagct gggatactca tttcctgtgt accgggcaaa caccggattg 480
 ctgattttga gaaatgcctc tcgatggacc tgtaacctgc tggagtctgg gatggttagc 540
 gtgggctgga cttggctgat gggatgacct ggtggctagt gcagcatcac acaagcctgg 600

ttcaagtctt	ggctgtgtca	tttcctgctg	agggaccagg	cactgaattt	cctacctctt	660
aggggtcatta	cctatgaggt	taaagctacc	tcattgggatt	gttatacgcc	actaatgttg	720
aggcagacac	ctcttggcag	ggtgactgct	catcttagac	cctccccctt	tctgcgaatt	780
tgggccccctt	gacccctctga	tgggagctga	aaggatgaga	ggtggggcatc	tagatttagg	840
gaggctgttc	aggcttttga	ggtcccttac	ctgaacacat	agaaaacctg	gagctgtgac	900
tgtgtccatg	tgtgtgtgtt	tgtctgtgtg	tgttgcgggg	gatggggcacc	tgcatgaatg	960
tggtagagaa	aatggctctg	ctcagagggg	agatacgcat	agcaaggcag	ggaccagagg	1020
aatcacaggc	gcctggagag	cagccgggca	ccgcctccag	ggacctgccg	gcttccctca	1080
gtcctccagg	ggcccagcac	tcttccctta	ggccctgtga	gcgtcccttg	tcaggataca	1140
ttctctcatt	ttgctgaagc	tgatttgatt	gggtgtctgt	ttctgcgagc	caaaagagct	1200
ctgaatgagg	aaagtgcctt	tgtgctaact	ccccgcgtct	cctgaatttc	agtcattcat	1260
gtaccgcct	cgaaattttt	gcaatatctg	tgtaccaact	gtccatttac	ttaataaaga	1320
agttttcttt	aaattaaaaa	aaaaaaaaaa	aaactcga			1358

<210> 45

<211> 965

<212> DNA

<213> Homo sapiens

<400> 45

caccaccatc	tgtaccaca	ggggagttag	gacaggcct	ccagggtggga	gccccasgag	60
cagaggaaga	ggtggaagag	tcctcaccac	tgcaagagcc	accaagccag	gcagcaggca	120
ccacccttgg	tccagaccct	aaggcctatc	agcttctatc	agcccgagc	gcctgcctgc	180
tgggcctgtt	ggcsgccacc	aacgcgctga	ccaatggcgt	gctgcctgcc	gtgcagagct	240
tttctgtctt	accctacggg	cgtctggcct	accacctggc	tgtgggtgctg	ggcagtgtctg	300
ccaatcccc	ggcctgtctt	ctggccatgg	gtgtgctgtg	caggtccttg	gcagggtgtg	360
gcggcctctc	tctgtctggc	gtgttctgtg	ggggctacct	gatggcgctg	gcagtcctga	420
gcccctgccc	gcccctgggt	ggcacctcgg	cggggggtgt	cctcgtgggt	ctgtcgtggg	480
tgctgtgtct	tggcgtgttc	tcctacgtga	aggtggcagc	cagctccctg	ctgcattggcg	540
ggggccggcc	ggcattgtct	gcagccggcg	tggccatcca	ggtgggctct	ctgctcggcg	600
ctgttgctat	gttccccccg	accagcatct	atcacgtgtt	ccacagcaga	aaggactgtg	660
cagacccttg	tgactcctga	gcctgggcag	gtggggaccc	cgctcccca	cacctgtctt	720
tccctcaatg	ctgccaccat	gcctgagtg	ctgcagccca	ggaggcccg	acaccggtac	780
actcgtggac	acctacacac	tccataggag	atcctggctt	tccaggggtg	gcaagggcaa	840
ggagcaggct	tggagccagg	gaccagtggg	ggctgtaggg	taagcccttg	agcctgggac	900
ctacatgtgg	tttgcgtaat	aaaacatttg	tatttaaaaa	aaaaaaaaaa	aaraattact	960
cggtc						965

<210> 46

<211> 791

<212> DNA

<213> Homo sapiens

<400> 46

gaattcggca	cgagcgttcc	tgtgctttcc	cttcctgggg	atctggctaa	aatgcgggtt	60
ctgattctgt	aggtctgggg	tttccagagt	ccgcggtttt	gctaagaagc	cgcagtgtatg	120
ttgacgcggc	tggtcctcag	tgcacacctg	agtagcacga	cctctccgcc	ctggacgcac	180
gctgccatca	gctgggagct	ggacaacgtg	ctgatgccta	gtcccagaat	ctggccccag	240
gtgactccaa	caggcaggct	tgcctctgtc	aggagttagg	gtaaacacctc	ctcactctgg	300
aattttctcag	ctgggcagga	tgtgcatgcc	atagtaacca	gaacctgtga	gtctgtgtctg	360
agctctgcgc	tctacaccca	cggctgtggc	tgtgtgaggt	ctgccacaaa	cattacctgt	420
cagtcctcag	gacaacaaag	gcaggcggcc	cggcaggaa	aggagaactc	aatctgcaag	480
gcccattgata	gtagagaggg	ccgcctgggc	taccctccca	gtgcccacaa	gcctgggtcc	540
ggtgggtccta	actagccctg	tctccttgcc	aatagccctg	tgctccccag	ccccctcccc	600
catgcagacg	gctgctatga	catccctgtt	ccttaaagtg	cgggggttcc	cgctgccttc	660
tcctccctaa	ctggcaccc	gtgcaaacct	gctgcagaga	acagtgtctt	gggcagtgcg	720

atagtcctcc agttcaccaa cagtaaaaat ggtctcaatg gggagagaaa aaaaaaaaaa 780
 aaaaactcgt a 791

<210> 47
 <211> 770
 <212> DNA
 <213> Homo sapiens

<400> 47
 gaattcggca cgagtcatt tctggcagtg actttgaaaa gttctgctgc gttacacaaa 60
 tacgaaaatc acatatattt ggcttgttgc ctctgagaac aaaaacatgt aataagagat 120
 acctgctttc atcttttgc atgaatagaa tactctccta cttagaaaca ggctttttct 180
 ccttgccact ttattttttc cttacctatg aattgcatgt gcctttgatg aaaacaatga 240
 actggacatg tacaacggta catgtaatag actgaatgca acttagaagt ggccactctt 300
 ccagtgtaca taggcttggg aatgaactaa tccaaacctg agtaatttgt ttatagtacc 360
 tcctttcact tttgtttatt ggtatctaca gtctctcatt ctttttcttt aataatatct 420
 ctttatatag aattttatat tcagccatga ctctattatt tcaatagtca cattaccact 480
 tcgaggattg ataccatgaa aaaagggttat ctagtagttt tgagtgaaga tacgaggcac 540
 accttcaata ccaataagaa ggtatacaac aaagggtctaa tgaagaaaaa tatctcattt 600
 tgaaggtagc acatagcttt caactgactg ggctgtttat ggtctttgct gtgtttgtta 660
 tcacagtatc taatagttaa gtggttaatta ctttcttttag tagaaattcc aagatctaaa 720
 ttggtacaca tataaatatt tgacaacaaa aaaaaaaaaa aaaaactcga 770

<210> 48
 <211> 875
 <212> DNA
 <213> Homo sapiens

<400> 48
 gaattcggca cgagctgggt cttctagaag acgaagatct atccaaaatc aagaagcctt 60
 tgatttagat gttgctgtaa aagaaaataa agatgatctc aatcatgtgg atttgaatgt 120
 gtgtacaagc ttttcgggcc cgggtaggag tggcatggct cttatggaag ttaacctatt 180
 aagtggcttt atggtgcctt cagaagcaat ttctctgagc gagacagtga agaaagtgga 240
 atatgatcat ggaaaactca acctctattt agattctgta aatgaaacct agttttgtgt 300
 taatattcct gctgtgagaa actttaaagt ttcaaatacc caagatgctt cagtgtccat 360
 agtggattac tatgagccaa ggagacaggc ggtgagaagt tacaactctg aagtgaagct 420
 gtctcctgt gacctttgca gtgatgtcca gggctgccgt ccttgtgagg atggagcttc 480
 aggctcccat catcamtctt cagtcatttt tattttctgt ttcaagcttc tgtactttat 540
 ggaacttttg ctgtgattta tttttaaagg actctgtgta acactaacat ttccagtagt 600
 cacatgtgat tgttttgttt tcgtagaaga atactgcttc tattttgaaa aaagagtttt 660
 ttttctttct atgggggttg agggatgggt tacaacaggc cctagcatgt atagctgcat 720
 agatttcttc acctgatctt tgtgtggaag atcagaatga atgcagttgt gtgtctatat 780
 tttccctctt caaaatcttt tagaattttt ttggagggtg ttgttttctc cagaataaag 840
 gtattacttt agaaaaaaaa aaaaaaaaaa tcgaa 875

<210> 49
 <211> 614
 <212> DNA
 <213> Homo sapiens

<400> 49
 ggtcgaccca cgcgtccgac ctccccctcc tgggctaaag tggttctcag ctcaactgcaa 60
 cctccccatc ctggctcaag tgggtctcgt cctcagcctc ccgagtagct gggacaacag 120
 gagagcgcca ccaggcctgg ctaattttgc atgttttgta gaggcagggt ttcaccatgt 180
 tggccaggct ggtctcagac tcttgataaa ataaatgatt aattgtggca ttttggtttt 240

caaaatgaga	attgtgttta	aaatgcaaaa	gagggaaaga	aagttatatg	taatcttcct	300
atattttagct	tttatttttac	ttcattggca	gtctgggtaa	aaaattcata	gaagacagaa	360
gacttggttt	ctagtcttgg	cctgaaactt	ttagctgtca	caactggggg	atgctgttgg	420
catctagtgg	gtggaggcca	gggatgctgc	aaaacattcc	acagtacaca	ggacagcgcc	480
ttacagggttg	aagggtttata	caaataatat	taaagctctt	tttttatatt	aatgtggaaa	540
aatgttattt	tggttcccat	gagaaactgc	tactatttga	aatttaaaaa	aaaaaaaaa	600
aaaaaagggc	ggcc					614

<210> 50

<211> 556

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (513)

<223> n equals a,t,g, or c

<400> 50

gaattcggca	cgagaagatg	ggcagccaat	ggtgctcaaa	ctcaaggact	ggcctcctgg	60
ggaagatttt	cgagacatga	tgccaaccag	gtttgaagat	ctgatggaga	accttcctct	120
gccagaatat	accaaacgag	atggcaggct	caatctggcc	tctaggctac	ctagctactt	180
tgtaaggcct	gatctggggc	ccaagatgta	caacgcctat	ggtatgaggg	agaggctaaa	240
attgctcttt	tgggggactg	ttgttcttat	ttcaactata	gaaggatata	tgtggtcaat	300
gtcaggtata	gagatgattg	caggcaagtg	ctggagaagt	gaatagtata	caagggtggtc	360
ttgaatatgt	ttgcttttgt	catattggtt	ttcataacat	ccatgtgggc	ccagaccata	420
agcttacatg	tctccagtag	tgagggaagt	tctgtttaag	aactctaccc	aaggagccat	480
attctcgaag	ggggggggccg	gtaccaaat	cgncctatag	tggagtcgta	ttacaattca	540
ctgggcccgc	cgctta					556

<210> 51

<211> 1003

<212> DNA

<213> Homo sapiens

<400> 51

gaattcggca	cgaggtcggt	gagcatcggt	tactggatgg	ggatgttgcg	atgcgcctgg	60
gcgttggcgc	cgctgtttcc	cccaccactg	gtcactgact	tgccgttctt	tttcaccttg	120
tcgccgttct	tggtcgctt	ggaaccgcct	ttgccggact	tgaccgactc	agcatcgatg	180
tccgtcatcg	tagatcgtag	atctcgaggc	tctgatacca	attgtttggct	tttaaaccgt	240
agatcaaaac	accagggagc	accacgtatg	tgtacgtgca	aagctaactc	gaacaagtac	300
actagcagct	tgaccgatta	gcccttgtag	acacgtatgt	gcaactagct	agagacttgc	360
gtatgaatac	ggttcagccg	actagcttcg	gttgattgga	tcaatcacgc	ggcaatggat	420
caactcggst	ctctcaacaa	gaacgtaaaa	mgcaargcac	tgaatcgttg	atggcacagg	480
ccgtgtcgag	cttctcgtaa	tactttgtat	tgctttgccc	atctgatctg	gtgttacaag	540
caccaccctt	aggggtgcct	ttatacacat	cccacaaggg	actatgggcg	gtgatgaaga	600
tgaagattat	tctccgaacc	ctcctagtgt	ggcacgcaat	cacggacgac	gacgtcgatg	660
acgactccga	cgaagggtgc	atggccgcga	tagcccggtg	catgccggat	tccgtgctga	720
tgacattggc	ggagttcgag	acagcaagag	aggcgtggaa	cgactcaag	aagatgagga	780
tcggagaaga	tcgcgtcacc	aaggcttgga	cacaagtgc	gaaacgcaa	tttcacaagt	840
tgcacatgga	ggaaactgaa	tcggtgaacg	actacgccat	gtgtcttact	actttggtgg	900
gagagttccg	cgcgcttggt	gcaaagctcg	atgagaccga	gattgtggag	aaaattttca	960
gttcagtgc	tgacaaattc	acgtacatca	tcggcacgct	cga		1003

<210> 52

<211> 886
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (886)
 <223> n equals a,t,g, or c

<400> 52
 atttcatttt agggcatact gggcttactc tcctcccagc tgtctgtgga ttgatttgat 60
 tttaatgttc gagttttaca gcaacagctg anaaaccatg aactattcta ggaactgtgt 120
 tggaactcct taaaataaag aaaagaggag gaggagagga agaaagaaaa ccaacttaag 180
 aagccttgga ctttgaggagg acagaaagcc accagccaat ggagaacaaa gagatgtttc 240
 cctttcccttt ctttcacctt gtcattctgg gtttccttct gtttcactct ttccttcccc 300
 cttaaaagtg gtattcctgg ttggtctgtc tgtctgtcct tgtccttggt gtgatcctgg 360
 catggtgata tgctccactt tgcattatcc atggtctcct accagcgcac aagtcagtgg 420
 ggaggatcta accacgcctg gtggtgagga agctgaattt ccaggcctgc gtcccatgta 480
 gcctctccat gaactgcaga aggcattgtc tgcattggtt ccagtaagtg gctccctctc 540
 accgtgttca ttgtcaaatg agagcaaact ttaggtgttg gctccattgt acactctact 600
 tgcctgtctc ccctccctcc aaccagggtt catgtcagtg cacaccccat gtgccctggc 660
 gaagctgggt ctgtgagtga tgtttcccat acaactcagg gatgccaggg ggcttacctt 720
 gagatagtca ttttgggcac ataacagtgt aggaatgaaa catggatttc attgatattt 780
 aaatctgtca atttcatttt ttgttaatgt tttccctga tgacttttta gcaatttaac 840
 aaataaaatg gacaattgtc ttaaaaaaaa aaaaaaaaaa ctcgan 886

<210> 53
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 53
 tcgagttttt tttttttttt tttttttgag acagagtctt gctctgtcgt ccaggctgga 60
 gtgcagtggc gcgatgtcgg ctactgcaa cctccacctc ccgggttcaa gcaattctcc 120
 cacctcagcc tcccaagttg ctgggattac cagagaagag gctgaagggc aaggaggga 180
 aggaattggt tcccagggtc atggacctct tgtgaagccc ccattgctgt ggggtctgag 240
 gaaacacaga ggaggtgtca gctgctctgc ctgccccac tcccctgcca acaacgtagt 300
 aacctctgtg cctaacctct gagccctggc ctccaaccct gggagggagg tacttatgtt 360
 atccgcattg tgcacgtgga gctcagagg gcagccactt gccaggccag caatccaggc 420
 tgtctgtctc cagagcccag gccccagtc aacaacttgc cagggtgcccc tctccaggcc 480
 tcggcttctc cacctgtggg tcaagagcac caggcttggt cttagagctat cttctcagac 540
 ctgatgtggg ctctgtgccg attc 564

<210> 54
 <211> 933
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (425)

<223> n equals a,t,g, or c

<400> 54

gttgggttttt	aatcctgggt	ttgacactta	ataaactgca	tgatcttgga	aaagacatgt	60
aacctctctt	tcaatttcct	tatgtgtaag	atgcttataa	tagtattcac	tttgtagata	120
ctattattgc	aaggactaaa	attatgaata	tgtgctggca	aataccaaac	tttatattaa	180
tacaagtgtc	atcagaatat	gtacatatat	taatagtaat	tgttaccaa	acaccagggg	240
ttcaatctgg	gtcctgctgc	tactgcaca	gaaagccaat	gcctgagaca	acaagtgttg	300
ccaaggaaga	aggcttaatt	gggtgctgca	gccgaggaga	tgggagctca	gtctcaaadc	360
catctctctg	acagaccaa	actggctata	tagcarggaa	gaaatgtaat	catgtgtggg	420
aaaancrgga	actcagaagg	ggcttggaag	caatcatggt	gaatcagcgt	ccacatttta	480
ttgtctggat	gtgatctggt	gagtttcatt	tctttgatac	tttttttgag	aggcctgaag	540
gtcatttcct	gaggaaggat	ctcagataaa	acaaatataa	gtttcaaagt	ttaagaccag	600
aaagtccaat	ttctatgttt	atctattctt	ttttttaaaa	aaaaaagcta	tatgggactg	660
ttgggttggt	ttcataatgg	ctgagtactt	tgaagggtct	gtgggtgcat	gaatggagaa	720
gatagagtga	tgggtgggga	ctttaaaata	ggatgatcca	ggaatgccct	gaagtagaga	780
cttgtaaaga	tgagaaatag	caagttatgc	gggtggcata	gaaaaagctt	ccagattgaa	840
aagcaagggc	aaagaggatg	tcttgtgcag	agaaagcatt	tgacaaaatc	gaatgcctct	900
tcattgtttt	aaaaaaaaaa	aaaaaaaaact	cga			933

<210> 55

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> n equals a,t,g, or c

<400> 55

cttgccatat	ancaagctga	attacctcat	aaggaacaaa	gtggagytca	cgcgktgcgc	60
cgtctagact	atgatccccg	gctgcagaat	tccgcacgag	cagtccagaa	actgcgtgcc	120
ctgccctttg	cttggggccc	tctaccagta	tgtccagcat	gtgcccgggg	gccctcagct	180
cccttggggc	ccagcccacc	caagacacag	ctcttggtcg	tgaacatgaa	gatgagccaa	240
actctagtgg	ctcttctctg	aagaaatgag	aatgcccagc	cacacccatg	cacgctttgt	300
tctttttttt	ttaatactga	ggaaccggag	tggaggggtc	ctgccgggct	gcagtgacct	360
tgagggaagt	caggagagcc	ctgggctgca	gaagagtccc	cccacaggct	ccgaagcaag	420
cttgtcctgg	tgcattcaga	ctgctcacag	caggctttgg	gccctcactc	tccagatccc	480
agagagccct	ccagggtccc	cagctctcgg	gccagtcccc	amgtcctcga	agggggggccg	540
gtaaccaatt	cgccttatag	tgagtcgtat	tacaattcac	tggccgctcgt	tttaciaa	597

<210> 56

<211> 773

<212> DNA

<213> Homo sapiens

<400> 56

gaattcggca	cgaggaccag	gcccttgcca	tgctcccaaa	gcctcagctg	tccgtcctca	60
cactcactgt	ggcgctcagc	ytcatcccag	gaacctgact	gcctgtctcc	ccaggcgaag	120
gcttcattag	caaagccact	gcagcatcgc	acggtgtatc	tctgagcaca	gctgacttga	180
cagaaggact	caactgtcca	cattaccgar	gactgaggta	tacggaatgg	tttctgtttt	240
gcttcttcaa	ggaggggaac	tgaaccccaa	ctaaatccaa	ggtgcctctt	ccaacgcctg	300
taactaaaat	tcaagcatca	cagccccaac	acctgctgat	ggcaccattt	taactgaggt	360
ccatcccga	agcttcccga	ctgtccacac	tggctctctc	tactcctgtg	caccaaagar	420
acaagccaga	ataaatggat	aaaagacagt	gtatgcgcac	gcctgtccca	gctaccagg	480

aggctgagggc	atgagaaccg	cttgaacccg	ggagggcagag	gttgcagtga	gccgagacgg	540
cgccactgca	ctccagcctg	ggagacagag	cgagactcta	aaaaataaat	aaataaatta	600
aataaataaa	taaataaaat	taaaaaagata	gtgtaggcta	caaaccctcag	gaagaaaata	660
ccagcatgac	ttcagaatag	tcagammtaa	tgggtgtataa	agttctccccg	gctcctctcc	720
acccacctcc	atcaatccca	ccctatctct	aaccccccaag	ttctctgttc	ctc	773

<210> 57

<211> 733

<212> DNA

<213> Homo sapiens

<400> 57

gaattcggca	cgagctggct	tgcagcagaa	ctggtttttt	ggccctgagt	caatgttcat	60
ttccccacac	caccttaaca	gggtttcctg	gccaaagagc	agggatggag	atgatgatgg	120
tggatgatgg	gtgtgtgcaa	ggccccgggag	aggggtttag	tgggaagatg	gggaagaagc	180
cacgcccctg	gccactagtt	tcttattcga	ttactcatct	gtagagaaat	ttgagacgca	240
tcacctgacc	catccgtcaa	ttcgcactct	gcactctaaa	gcaccagagt	cagtgcctggg	300
gaaaacacta	tttaaaaaaa	ttcccagttt	aacctcatta	agcctctgtt	ttcccatttg	360
taaaactacag	acagactgga	gacttgtaag	agataaatct	aattctttca	tagacattaa	420
tgatccctga	aaaaggatca	tttgagggac	atggagattg	gtttctactg	tttctgttgt	480
tactaacact	cctcctttcc	caaggccttt	agaaaggggt	gagctctcca	tcacagaaag	540
tattcagata	ggcttccagg	aatttttttg	gaaaatgttc	ctgctttgag	taagacacag	600
gactagatca	gcgtttggca	aactatgggt	cgtgggctaa	attccgcccc	tctcctgtgt	660
ttgaagataa	agtggaaacac	agccacgttt	actcgttgac	agagtctacg	gttgcttttg	720
cacacagact	cga					733

<210> 58

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (506)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (520)

<223> n equals a,t,g, or c

<400> 58

tggcgggccc	ctctaggaac	tagtggaatc	ccccgggctg	gcaggaattc	ggcacgagac	60
ttccacaaac	tcttcattgt	ctactgacaa	ccttacttct	atctttactg	agaccaaaaa	120
aaaaaatcag	atgagttatg	cccatcacgt	caccgtattc	ccaaactacc	tgcctctgtg	180
cacaccacct	cactgcctgc	tgcagttact	gtccagggcc	agcgcctctg	cccatgtact	240
ggagcctgtc	cctccaccct	tttcaagcat	gttactctat	caaataaata	tccctttctc	300
ttttgcatta	tcagttttgc	tatctctctg	ttggccccac	cagcactatt	acccatgcta	360
tattagcttt	taaaaaattc	tctcaatctc	acattttatc	ccaacgttta	catcattctt	420
ttgctgcact	ttgtagaaaa	atattttgaa	ttttctgtat	ctattttctac	ttccttactt	480
cccatgtttt	cttgaactca	ctcgangggg	gggcccggan	ccaattcggc	c	531

<210> 59

<211> 852

<212> DNA

<213> Homo sapiens

<400> 59

gaattcggca	cgagtgaact	gcatgtccat	ttatcttaag	ccaacacctc	tacttatgta	60
ctagatccca	ttctttcttc	ccccctttct	ctcttgatt	agcaacattt	ccttctttta	120
ctgtaccgta	taaagatgct	atattttctc	ccatctttaa	aaaagaaaaa	gtctctttta	180
accctatata	tccctccagc	tactaactgt	atwkctctct	tgtgctttaa	agaaaaaaa	240
atgtgtgtgt	gtgtgttttc	tttttgtttg	ttttgtttgt	ttgtttttgg	tatggtctta	300
acggtcttgc	tttgtcacc	aggggtggagt	gcagttgtgt	gattgtggct	cactgcagcc	360
tcagtctcct	gggttcaccg	ggctcaagt	atcctctcac	ctcagctcct	gaataccttg	420
gaatacaggc	atgtgctgcc	atgcctggct	agagaaacgt	tcttgaaacg	tttcatatac	480
ttaatatatt	taattccttg	ccttccattc	tttcttgaat	ccactccaat	cagattttta	540
ttcttgccat	tcttctaaaa	ctactcctat	gaaggttatc	tgtggccttc	atttttgtat	600
gtttactcca	agaaaattgt	tgtgataaat	taccccagaa	tgtagagggt	taaaacaact	660
atattattac	ctcatgagtt	ttgtgcatta	gaaattcaga	caagacacag	caggagcagc	720
ttctctgttc	cacagtatct	ggagccttgg	cttgaagatc	aaagcctagg	ggcttaattg	780
tcagaaatga	tcgtgtgtat	gtctgggagt	tgataccagc	gtttgtctgg	gaacctcagt	840
tcctttcctg	cg					852

<210> 60

<211> 680

<212> DNA

<213> Homo sapiens

<400> 60

gaattcggca	cgagaaaaaa	acaaaaatat	gttaatatcc	tgtggagaat	attggtatatt	60
ttgttttaaat	cttctgtggg	ttgtgggtcc	atataaatcc	agttttctga	gctttggcag	120
tgttatttcag	atctgtccca	caagtgttcc	accatttgg	cagtctggga	tctgggtgta	180
ggtctactca	ttatctcagt	tatcagagtt	tttattatgc	caattgggtat	cagatgcata	240
cctacacagg	ttgaggatga	gcccagcagt	tcataaaaca	cattatgggg	tcactttcct	300
atggacagag	agagaagaaa	aaaaacccaa	aacaacagag	tttgtcctgc	ccacttggag	360
gcacggctcc	acaggatgga	gagaaagggt	cccttccttc	aaaagttttg	ttcctggagg	420
ctttccattc	ccagattcct	ttgttggtgc	tgctgcccc	accatggatg	acctggggac	480
tgacacatga	gagtattggag	ttttcccaag	ctgctgagca	cagtggctca	cacctgtaat	540
cctagcactt	tgtgggagag	aggcgggarg	ataacttgag	cccaggagtt	tgagggttgt	600
gmgagctgtg	atttgtccac	tgcatcttag	cctgggcaac	agagtgagat	cctgtcaaaa	660
aaaaaaaaaa	aaaaactcga					680

<210> 61

<211> 894

<212> DNA

<213> Homo sapiens

<400> 61

tcgaggttag	actgcataga	aaacaatttc	agatttcctg	gaggctgcat	aaaatttaac	60
tatttaaaga	taattaaaga	agcattaaaa	ataagaagat	tatcatctcc	agcaaaatat	120
agaaagtagt	acagtgaaca	aaatataatt	agagaatttt	tgctcaaaga	aaaccatctt	180
tacattgtaa	caggaaaaaa	tgtgtgtggg	ttttacccaa	tttttattta	gaaatgataa	240
ggaaataaga	agtctaaatg	gttccaaatt	ctagtatgtc	aaaataggaa	atcaagtgat	300
aatatctaaa	agtgatgaat	caacaaatag	ctrtagtcaa	tggtatttac	atacatagaa	360
ctaaatatata	gaaggaaaca	ccaaagaatt	gaacatcttt	gcctgtgaag	agtcacttag	420
ggattcgaag	ggaaaagcag	actgatgctt	ttttgtcttc	agcactatgc	gatttttaaa	480
attgttttcc	cacaatatat	tgatacaact	aaaaattatt	ttaaaattaa	aagtttcttc	540
agtgtctccc	tctgtcaaat	ctttaaaaga	tgaaagaatc	atatttattt	tccaagtcag	600
tctaaacaaa	gttttaagtc	catgcctgag	attttatcca	cagcgtacag	caacatttct	660
gtcttgccaa	attgagtttg	ttcagcagct	tagaaacact	ggcaagatac	aaaactagtg	720

caagcatatt	ttatttataaa	aatagtcaga	caacatcttt	caaacacccat	tggttagttt	780
tcatacaaaa	tgcaagtttt	atcaggggtat	atcttttattg	taaacttttc	aaaattattt	840
ttaattatgt	gggcattttt	tatgtctaac	tttatttgca	ctcgtgccga	attc	894

<210> 62
 <211> 691
 <212> DNA
 <213> Homo sapiens

<400> 62						
gaattcggca	cgagatccta	ctatatctta	tgaataaaga	ataaaaaatga	gtgaagcctg	60
atcctccaag	agcaccagga	gaaaatgaag	attctagtgt	tccagaaact	ccagataatg	120
aaagaaaagc	aagtatatca	tatttcataa	atcaaagagg	aatacagtat	attgatttgt	180
cttctgatag	tgaagatgtc	gtttcccca	attgctccaa	tacagttcaa	gagaaaacat	240
tcaacaaaga	tacagtgtat	atagtttctg	agccatctga	agatgaagag	tccaaggcc	300
ttcctaccat	ggcacgtaga	aatgatgata	tttcagaact	ggaagacctt	tccgaattgg	360
aagaccttaa	agatgctaaa	cttcagactt	tgaaggaact	ttttccacaa	agaagtgcac	420
atgattttact	taaggttata	ttcattgggt	attgtagctg	taatgatgat	aaaatctctc	480
ctgcattcag	tgctatagtt	agtagtggat	agtcattttt	ctaaagatat	cttacgtttg	540
aagatatttaa	ctattaaatc	taaaggaagt	aaatgccaga	cattttattta	ttgaaagtct	600
taacttttta	atagatgagg	ttattttatt	gtaaatagtg	cagtaattaa	agccttaata	660
gcgaaaaaaa	aaaaaaaaaa	aaaaaactcg	a			691

<210> 63
 <211> 891
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (398)
 <223> n equals a,t,g, or c

<400> 63						
agtgaataa	cacnttacct	gaaggtcagg	ttctgaagtt	agcatatgag	atgaaaattg	60
cttatgggta	aaatatacct	tcagagcctt	ggaagtcacc	agtaagcagg	gccagatgca	120
cctgggtttgt	ggggcatgtg	ggatcaaaga	cccactaaag	gaacacagga	ttttcagctc	180
ctttttgctcc	ctggcatttg	ctcatcattt	gcactattac	taaatgctct	tcccttccct	240
gctccttctc	caagcattgg	tacatgtctt	tgtgctagtt	aagcttgagt	acattgtgat	300
ttcactagat	cacactccca	atttcaagkk	cagtgtgaag	aatatagagg	ttctgggttg	360
tctagccttg	gccacgtatg	agtagacacc	cccagttnc	aaggtcaact	ccacttctca	420
ctagaattaa	aaagctttac	tccaaatgta	gttaaaacag	cccaatatct	tccctttata	480
agcagtaatt	aaacttttagt	gtggataaga	ttcatctggt	ttgcttactt	gaaaatgcag	540
atctttggct	caacctctag	aagatgggac	agagccagag	tgggggttga	tgggggttgag	600
aaatctgcat	ttcaacagta	gtccacaggt	gactctatgc	agaccctgga	aaacactcta	660
tttaagggtc	caccacagcc	agggaccata	ttccaactgt	cacttttcta	ggtctcattc	720
tcattatttg	ttccaagact	ctctcttatt	tttgcaaatt	taatttataa	gtatgagcat	780
ttcctgaatg	taaccagcca	ctctaagcca	gagctgacct	atgagggaca	catacgtggc	840
caaggctaga	ccaaccagaa	cctctatatt	cttcacactg	aaccggcacg	a	891

<210> 64
 <211> 958
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (469)
 <223> n equals a,t,g, or c

<400> 64
 gaattcggca cgagcgccca cctagtgcac agccttagag gtgttacagg taaaggaatg 60
 gcggtcgcaga gggaaggaga gacttgccta acttcagggc aagctaacgc ttgatttcaa 120
 cttgataaat ttctgagtat gcagtgggtg cacatagcag agacaggtaa tgagaagttt 180
 tcttttttcc ttttcttttt ttgtgggggg tggggacaga gtctcactct gtcaccagg 240
 caggagtgtg gtggtgcaat ctcggtctac tgcaatctcc cccaccccca cctccagggt 300
 caagcgattc ttgtgcctcc gcctcctgag cagctggcac tacagggtgca cgccamcacg 360
 ctgggctaag ttttgtattt tagtagggat ggggtttcac catgttctac gtttcaccat 420
 gttggccagg ctggtcttgg actcctggcc tgaagtgate tgcctgcctc cagtgtccca 480
 aaagtgttgg gattacaggc gtgagccacc gcaactcggc gagaagtttt tctgattaaa 540
 aaaaatttta aggcacacac ttcagacagt ggctgtgaag gaaccctgat gtgtatctaa 600
 actgtcgcct cgtgcacatc acccattac ttactctgtg ctaagtgtg tcatgcatta 660
 catcattact ccttagaaca ggcctatgag gtggagtctg cattaggccc attttggaca 720
 aggacaccaa tagtgtggga ggtggtgtac cttgcccagg ccccagcag gtaagtgggtg 780
 gtggggatta ggacccaggc cacttgagtc catatcctgg gctcttagtc ccactctgcc 840
 tggctgcctg ctgctccatg aagccaaccc tggacctaga cctggacctg gatcgtcata 900
 gccagatcc ctgtgtgctt ccaggtgc cttgtggcag gtggatgggtg cccctcga 958

<210> 65
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (291)
 <223> n equals a,t,g, or c

<400> 65
 gaattcggca cgaggaaata tctgaaaact tacatctgtt cttgtgagac acatcattgc 60
 tttgacgtca gtgacctaac cacacgaact aagaattttt aaaaagtact cttgatggta 120
 tgttttatga tgttcagggt cccagccatt cctcggaat gtgttttttt gttttttttt 180
 ttgtttgttt gtttttgttt ttgatgaatg agtctaaagg ctgagtggct atcaaacaat 240
 tcttttttgt ttacattgta ttatgaaaat aatataaaaa ccctgtgtac ntttcttgtt 300
 ttccctttcta tagttttggg gaacagggtg gtttttgkta cctggataag tcttttagtgg 360
 taatttctga gattttgggt tgcccacac cccyccgtgt actttaaaat gagtaagttg 420
 tgaaaatgtc aactagtgtt ctatttagag ggtcctcata aagtaacaaa atgatacata 480
 acacatttgc acagcaagtc ctacttaga gttgtagata tgttcttgaa aactgcgact 540
 tcaagtgaaa caacatataa caaaactaat tttaccatag gctggttgac acaaacaaga 600
 gcttagttcc taccacacat tactgggtcat aaaaacatga ccaaactctt aactaaagac 660
 caaaagactt ctaataataa acatcgagat aaatgtgagc tatacctacc ttttaagaaag 720
 attagtgtaa acaagtaagg taatttactc agttattcta gttcaggact gtgggttagcc 780
 agagcctgtc ctggcagctc ga 802

<210> 66
 <211> 1092

<212> DNA

<213> Homo sapiens

<400> 66

gtcacacggg	cgaatagctc	cttcttctca	gtaatacaag	cttttttggt	ttgaaatatg	60
gacctctctc	ccagcataat	aatgtgattt	tttttattca	ttttatgtta	ttatatccac	120
atcttttact	aaaggaaaat	gctgctat	gtgatgaaat	tgctcgtctt	gaggaaaaat	180
ttcttaaagc	aaaagaagaa	agaagggtgag	ctggcttcat	tttgtgttca	gcatcacctt	240
tttgggtgatt	gatttgggtga	ttgataatgg	tggtactgct	ctggagactt	tttttcccag	300
tgggattgat	gcgtatcgca	cagccccttg	gccacttgat	caagcacaga	gaaacttaca	360
gcctgaggca	ttgggtgcctg	cacaccaag	ttatgttggg	ccatggcgat	gagacagctc	420
ctctactcat	ctttctgaaa	aagccatctt	gccacatcta	ataaataatc	ttactaagat	480
tattttaatct	tatggcccaa	ttataaaagc	caagtataaa	aagcaactgc	ctctcgttct	540
acaaatat	attctgtacg	tactattctg	tgcaaagcac	aatgggtata	tatacatgtg	600
taaataatgt	gcctttcaga	agcctaacac	cgtccaacat	caaggtagag	gaaccgtcca	660
gatgcaagag	ataagctaca	gttcttatcc	ttggcctctt	gaagtattga	ttatcctcca	720
gggctttatg	attcataggg	cctaataaga	acctttcttt	tatgagtata	gtaatctttg	780
tatataatc	tggcttttcc	cagtacttga	gtaaaatact	gaattgagac	aatacggag	840
ttcatttctc	tgctcctttc	cttcctgatc	tcaggtaact	gctaaagaag	ctcctccagc	900
ttcaggctct	aactgaaggg	gaagtacagg	ctgcagctcc	ttcccacagt	tccagtttgc	960
ccctgactta	tggtgtggcc	agctctgtgg	gaactataca	gggagctggg	cctatttcag	1020
ggcccgagc	tggggctgag	gaaccatttg	ggaagaaaac	taagaaggag	aaaaaaaaaa	1080
aaaaaactcg	aa					1092

<210> 67

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (396)

<223> n equals a,t,g, or c

<400> 67

gaattcggca	cgagggtgaat	ttaatttccc	ctaattgactt	atgggtattga	gcatcttgtc	60
atgtgtcat	tggccattta	tagatctact	ttagagaaat	gtctattcaa	gtcctttgcc	120
cattgttttg	ttttgttcca	ttttttat	taggttcaag	gggtgaatgt	gcaggttttt	180
acacgcatgt	attgcaagat	cctagagctt	gggcttctaa	tgatcctgcc	acccaagtag	240
tgaacatagt	acccaatagg	gagttttcaa	cgtttgccct	ccttctccct	ccccactttt	300
ggaatccctg	gtgtccactg	ttcccgtgtt	gtgccatgtg	tccccagtg	tgagctccca	360
cttatgagt	agaacatgtg	gtttttgggt	tctgtntctg	cattaattca	cttaggataa	420
tggcccccag	ctgcatctat	gttgccacat	tgtacatgat	ttcattcctt	tttctggctg	480
tgtagtattc	cataatgtat	atgtaccaat	tttcttttct	tgtcttttca	gagacagggt	540
ctcactctgt	cacttaggct	gaagtgcagt	gacatgatca	cagctcattg	cagcctcaac	600
ttcccaggct	caagcaatcc	ccctatctca	gcctcctgag	tagctgggac	tgcagggtgca	660
taccaccaca	cctggcta	ttttgtat	ttggtagaga	cgaggtttca	tcattgttgc	720
caggctggtc	tcga					734

<210> 68

<211> 701

<212> DNA

<213> Homo sapiens

<400> 68

gtttttgtgt	atctgtctta	ggctttttta	tttgagggtta	ccattaagct	tgcaaataac	60
------------	------------	------------	-------------	------------	------------	----

```

atgtttataag ccattatgtt aaagtgatga cagcactgat tgaaaaagaa aaaaacaaat 120
taacaaacaa gcacagagat aactaataac actacatttta attttattcc cctttttaac 180
tttttatttta tttatatatt atagtgtctat gtcttgaaaa gttgttgtag ttattatttt 240
gatagggttta tcttttagtc tttctacaca agatatgagt agtttacaca ctacaattgc 300
agtgtcataa tattctgtgt ttgtctgtga gttttgtacc ttcagacaat ttcttattgc 360
tcccttttct ttcagaatga agaactccct ttagcatttc ttatagcata ggtctggtgt 420
taatgaggtc cctcagcttt ttgtttacct gggaaaatct ttatttctct ttcacgtttg 480
aagtctattt ttactggatg tactattcta ggatgaaagt tttttccttc aacactttaa 540
atatgttatg tcactttctc ctggcatgta aggtttccct gagaagcctg ctgcaagatg 600
tgtgggagct catttgtagt ttatttgttt cttttctctt actgccttct tttaagattc 660
tttctttatc cttgaccttt gggagtttga ttattaaatg c 701

```

```

<210> 69
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<400> 69
tcgagggggcc cgccctcgg cgccccccag gctctcacc gaagccgccc ggctccytcc 60
gaggtccccc cggtytccgg tccctctctt cggaggcggc tccagggtgt cggccaacac 120
aggtgaaagg gscggggccg cgggaggggc cggggcgctc cctggctgcc tgaatggccg 180
ggcgggggtcg agggagagtc gcttctctct ggggtgggggg cactggccca acctgctgtg 240
gttgcaaagt gcccggccag ttaactgagc atctactgtt tgcagatcct acattgaggt 300
agcctccgct cctttcccg cactgctgcc ttgccctgtg gggcaggaaa ttattagcaa 360
tgacaacaac accgaatctg acatcttaag cattctgcta agtaaactct tttttatttt 420
ttctcgtgcc gaattc 436

```

```

<210> 70
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (7)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (644)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (718)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (719)
<223> n equals a,t,g, or c

```

```

<400> 70
ttatcanaga ccctgtgggg gaatgggggtg gactctgggg ggttagcctt cttccccagg 60
ctgggagtggt gtgagacgag actcggggcc tctacatctg agtgtcccc aaaccgagca 120
gtcatgtcgc gagcaacaa agaaatcatg ttacttcttc cagctgatgt tccacttggt 180

```


tattctgttg	tttctgtggg	gagagtcaca	ttaaggtgat	ggaggggtggc	cccctcaact	240
ctattcccca	gagcaggaag	tggtaggcag	gggccaggaa	tggatttttaa	aggcaaagtt	300
ctcagaccca	gtgggaactc	gaactggtaa	actctcctca	agctcccaag	gacagaggat	360
ttgggtcttt	gttggctttt	gtccacagcc	acagaactca	aggtctgaat	ctggaatctc	420
ttgacaggac	agtaacataa	acctctagag	atggagtttg	agaaaggccc	ccccttctgc	480
cagcttgtga	tttagaaaag	tgcattcatt	caataaacat	ttactgagca	cgtacgggcc	540
aagtacggtt	cttcacagaa	gatttagggc	ggaaaaggac	agacaggagc	ctttggccct	600
gaggtttcca	ttctaggagg	cctttaaatc	tcagactctc	agantaacag	agactatgat	660
tactcactat	tcctctggaa	cacgagccaa	aagagagtgc	tgtcagatca	agacaatnng	720
g						721

<210> 71

<211> 793

<212> DNA

<213> Homo sapiens

<400> 71

gattcggcac	gaggtttcat	gttaattttt	tgttttggtg	ttgcctgaat	catacaagta	60
gtgtaagttt	ggacctcaca	tcaagagaaa	taacagaatt	ggggacttaa	atttttaatt	120
ttaaattttt	ttctacctca	catcagatag	agacaagcct	cattgccatc	tcctgtacc	180
agaatgtgga	atttttcttg	ttcaaccagt	atttgtgagt	atggcttttt	aaaattttctg	240
gtttttatatt	tactttccac	ttctatgtct	tcacctctta	taggcccaga	acctcactct	300
ccaaccaagt	gcaaaattaa	atagaattct	tgtgatatca	ggggaaacaa	aatatctccc	360
tgaccttctc	tagatgtctg	tactatcagt	tcacgagttt	ctgtctctaa	agcatagtcc	420
ctgtttctcc	tgatgttttc	tctctttctg	gcaaaaaagr	atgttattgc	atattacaaa	480
taatttttgt	tagttttctac	tcaaaatttt	aacatatttg	tagtgagaaa	gatgttacaa	540
tattttatttc	accatcctgc	cagaacaaga	tgtcaagggtg	gtgttttctg	aaacacaaat	600
gggtgtgtca	cactcctact	taaaatcttc	aatgacttta	tatttctatt	atcataaaat	660
tccatctcct	tcatattaca	taaaaggaaa	tcctaccttt	caagtctaac	cctttgctat	720
ggtctccttc	acaactcagtt	ttcagcwata	tggagctcct	ttcaggtcct	aagatgtttt	780
ggtgtttcct	cga					793

<210> 72

<211> 761

<212> DNA

<213> Homo sapiens

<400> 72

gaattcggca	cgaggacagc	atgagatggt	ctttgttggt	cttctcccgg	aaatgattcc	60
cctcactgca	gaggagggtg	gaggctggaa	gaaaagcaga	agtgacccta	agacacttcc	120
tgtccaggca	tttggttttca	agtgccaaagc	ctggggaccc	aggaggagaa	gggaaggact	180
tccttgggat	tcctccaaac	tgtctccctt	gagcagcact	agactcacta	cctgctcccc	240
acctcccacc	tcaggaaggg	gactgcaggg	tacacaggag	gctgcgccct	ggacaccagg	300
ccccagcccc	accaaaccct	cagtccccaa	agccccagac	cctgaacttg	ccaggaccat	360
gcaggctggg	ctactgtggg	tcttggcaga	accagcaacc	aatggagggg	gagaaggaag	420
gagatctcta	acatttttcac	agaacaaacc	acgcaggaac	ccaagaaagg	ctgaagttct	480
atttttttgc	aatccggtgt	aatgagagta	taaagccaaa	attaacttga	attctagaaa	540
ataaagacaa	gccatatttc	ctgaacctga	gtcaatggac	tgagattcca	tccaaataaa	600
ggaaaaggcta	ggaggggagc	gggtggcttc	tggctccagt	gagaccogag	gctatctgct	660
gcagacccca	gattgcaggc	cacggtccct	gtccagtggc	agggcaccag	cctaccttgc	720
cactgtgggc	agccatcagg	gagagggcag	ccactmtcga	c		761

<210> 73

<211> 673

<212> DNA

<213> Homo sapiens

<400> 73

gaattcggca	cgaggctcta	gtgtgtgaat	caggccctgt	gtggacatgg	tcgtgccagc	60
ggactcggga	ggcctgccgc	gccgcaccga	gaagctgctg	tgtgtgatgc	ttttgcttct	120
ggagaggatg	gcactgtgcc	ctgtgcttga	tgtacacaca	catttggggt	gcatcatctg	180
tgtggcctgc	cagcctgtcc	gcactgttct	gtctcttctg	acagcctcca	tccaggaagg	240
ctctagacta	tctgggcatt	ttcaaact	gccgcacaa	actgatacaa	ctttccacaa	300
aggaagcaaa	ttatagagct	gagaccaaac	cagttttatc	ctcctccctt	accccccccc	360
cggcatatct	tgaatcaaac	aaactcttct	tgtaatgtcc	gctttccgga	cagttcccat	420
cccacagtca	ggcggccatg	aatttgtttg	gaggcaacgc	tttccaagga	ggctgagtcc	480
atcgcctgat	gggtgtggctg	gtccggccgg	ggcacagtgc	agagctccta	cccgggactc	540
tctctgacac	ctagtgtggg	agccaggcac	actgcacaga	cagacacatg	gctgaggtat	600
gacctccta	gccaacaaaa	aggcaagcag	aggcgcacag	gatgcaagca	cgagaagagc	660
aacttgtcct	cga					673

<210> 74

<211> 583

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (64)

<223> n equals a,t,g, or c

<400> 74

atamcatttc	mcacnggaam	crgetatgac	cctgattacg	ccagctcgaa	ttaccctcac	60
taangggaaac	aaaagctgga	gctccaccgc	gggtggcggcc	gctctagaac	tagtggatcc	120
cccgggctgc	aggaattcgg	cacgagacag	gtgcatgcac	acgccactgt	gtgtgtgtat	180
gtgtgtgtgt	gtgtgtgtgt	gtaggggaat	cttagtctaa	agcatcccac	tgcaaaactaa	240
aagctctttta	aagtatatatta	atgtcacaaa	aagtttaaggc	atttttccat	tcttgtagc	300
atgtttcttt	taccattttt	ctcattttcaa	attactttga	ctttaaacgt	tccctgaaac	360
ttaaataatac	tgaggttctg	ggaagagcta	acatgccaac	atttctatct	tgatacacat	420
atctttctgg	caagctgctg	agtaacctcca	gttaagaagc	acaggcctaa	actctcagt	480
tacagcattg	ataaaatata	tctcgagggg	gggcccggta	cccaattcgc	cctatagtga	540
gtcgtattac	aattcactgg	ccgtcgtttt	acaacgtcgt	gac		583

<210> 75

<211> 801

<212> DNA

<213> Homo sapiens

<400> 75

gaattcggca	cgaggatggg	atttcacat	gttggccagg	ctggtctcga	actcctgacc	60
ttaggtgatc	ggcctgcctc	ggcctcacaa	aatgctgaga	ttacaggcgt	gagcaccgca	120
cctgggtctga	tttttttttt	aaatgcaaat	cagactatgt	cactcttttg	cttgaagctc	180
ctcagtggct	gcctatggct	gtcagggtca	gagcctcacc	acggcctggg	tttctctctg	240
tggccccctg	ctttgcgcctc	ctgtcttatt	cttatcctga	actacgccaa	gccttttctc	300
aacccccgcc	cttgctccct	ctgtctggaa	ctaccttccc	aggccttttt	gtgccgttca	360
ttctcaagtc	acctcctcag	cgagccctcc	ttagtcactc	cctttcatca	ccctgtttgc	420

ttcccttccca	ttatctgggt	tccttgagg	cttatgtctg	tctccctca	gtggaatgtg	480
ggcctcatgg	cacaggccca	tcggggtcac	tgctgtgttc	agggctcagt	aaggatgcct	540
cgggtgcgctt	ggatgtggcg	ctggccggct	ggctgggggt	gccacctggc	gtgatttgtt	600
gtcacttgct	cacttgctct	agatgctgtt	tataaaagta	ctaatagaac	caggcacggg	660
ggtttatgcc	tgtaatccca	gcattttgga	agcccaaggt	aggcgaatcc	cttgagccca	720
ggtgtttgag	accagcttgg	gcagcagggc	aaaaccctgt	ctctactaaa	aaaaaaaaaa	780
aaaaaaaaaa	aaaaaactcg	a				801

<210> 76

<211> 982

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (554)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (615)

<223> n equals a,t,g, or c

<400> 76

gaattcggca	cgagtggcca	gctgggtaat	gggaacagaa	cagagcctgg	gatatagggt	60
acagggttta	ttattgggtg	tatcacttca	tgtctcccag	agaggcctct	gtgggtcact	120
gccccctca	atgagttctg	aagagagaaa	acagaggccg	tggtccagtc	agtatgggga	180
gcactgtgtt	cccagacccc	cactgcgtgt	taaggtcagg	cgccacatct	tgtagtcagt	240
tgctttgccc	agtggctcca	gctttctcta	gctcctctct	gggcctcagt	ttccctgcct	300
gctggccaac	agaggggcct	gccaactctg	gctgcctatg	accagggtgg	ctccagaggg	360
tgctgctggg	aggggtgcca	accctamctc	tctgcaagtg	aaactgggca	tgccamtcac	420
ctctctgggg	cctcagtttc	ctcttctgag	cattgaggaa	atttgggggt	ttccatgttc	480
cttccagtc	gaaaccagat	gctgccatgt	cccccaacc	aaggcctcag	gaacagtgtc	540
ggatggatcat	tttngagggt	ttctgtctct	gtctctccga	ktgaggtttg	cttgaaaagc	600
taagaataga	atccnagcma	ggctgtaktg	gcggccagct	ggaacctgat	ataktcacat	660
atgagaactg	gtaggcctgc	atgccgacct	tctatggacc	agaatgggac	agaggccaga	720
atatggccat	gctcttccatc	ctcactcctg	ccccactgcc	ctcagcccag	tcctcctgtt	780
ccatctgact	gaaaatcagg	gcattgtagg	tgatggtttg	ggctgcagcc	aggtctgtgc	840
ctgctgtggc	ctctgagctc	tgaggtcaaa	tggggactgt	ggaagaggct	gcctagagtg	900
gcagaaaacc	taccttgga	tggggagctg	gctcagctgc	gggctcactg	tgtgagcctc	960
agcaacttgc	catccctctc	ga				982

<210> 77

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 77

gaattcggca	cgagtactct	taagagcact	caatcacctt	ttgaatgctt	tgctgcttag	60
aaattttctt	tgcaagacat	cctaaaacat	ctctctcaag	ttcaaagttc	cacagatctc	120
tggggcagag	acaaaaatgc	tgctagtctc	tttggttaagc	atagcaagaa	ttacctttat	180
tttagttccc	aacaagttcc	tcacttccat	ctgagatcac	ctcagcctgg	actttattgt	240
ccatatcact	atcagcattt	tggtcaaaa	cattcaacaa	gtcactaaga	agttccaaac	300
tttcccacgt	ctttctattt	ttttctgagc	cctccaaact	gttccaacct	ctgcctatta	360
cccagttcca	aagttgcttc	cacatttttg	agtatyttat	agcgsacccc	accctctgca	420
gtmccawttt	mccatattag	tcmcttttcm	cattactatg	aagaaatmcc	cagcctgggt	480

aattttattaa	ggaaagatgt	gcmatttact	cacwtctctg	cactaccagg	gagatctcag	540
gaaacttaca	tcmtggcaga	aggcaagaag	aagcagacac	cttcttcaca	gggtggcagg	600
acagagctag	tgcaagtagg	gaaaatgccc	agatgcttat	aaaatcatca	twctcatga	660
gaagtcactc	actatcatga	gaacagcatg	agggaaacta	cccccatgat	ccaattgcct	720
ccatctgggt	cacccttcat	atgtggagat	tatgaatatt	accatttgag	agagattttg	780
aatgggagca	cagatccaaa	ccatagcact	gccttaaggt	atctaataat	caaactccca	840
aaggtcaagg	gaaaagaaa	gattctaaaa	atagcaagag	aaaagaaaca	aattacatgc	900
aatggagcac	caatatgtct	ggctgcagat	gtttcagtgg	aaactttatt	ggtttaggag	960
agagtggcat	gacgtgctaa	aaaaaaaaa	aaaaaactcg	a		1001

<210> 78

<211> 748

<212> DNA

<213> Homo sapiens

<400> 78

tcgagggctg	ggcctaactg	gaactctgat	tccatgtaga	aaagacaggg	tcccacagcc	60
tgcttccttt	ctcctggctt	ggtgggcatg	cagaatttct	tgacctctgt	gttccaacaa	120
gagagctgaa	aggaactctc	ctaaagaact	cacatatatt	ttttaaatc	taattctttt	180
tccaaataga	agtttgaaaa	ggcaccctct	agaggaacat	gcacttctgg	actggcccca	240
ggttccagct	tgggttggcg	ggcgtgccc	cagctcagtt	tgaaacctct	cacattgaat	300
caaggggccag	aagcagggcc	tgtgggaagt	ttctaggctt	ctgctcatcc	agaactgtcc	360
cctcagcatg	gtgtgaggct	cttatggagc	ctgcagtcac	aggatatgag	acaaaaagcc	420
ttcccatcca	tggatgtcct	ttcatacact	ggcacagAAC	accgggaaca	aatgaagggtg	480
actgagaaaa	aaaagaggca	gaccattttc	ttctgcggtt	tgttttgtca	tccagatacg	540
cttactttgt	gcttatagct	gtatgatctt	ttttcctcat	ctctaataga	caggattttc	600
gcctcattac	ccatacagct	aaagcttaat	attaactaaa	tcagtgggtga	attcctttcc	660
tttcccaccc	cgacactatc	agcgacattt	ttcataatgg	ccagcagagg	tcagtgtgag	720
aacatagaga	ctacactcgt	gccgaatc				748

<210> 79

<211> 586

<212> DNA

<213> Homo sapiens

<400> 79

gaattcggca	cgagggacta	ccaacaagtg	ttgctggacg	tccggcggtc	attgcgggcg	60
ttccctcctg	gtgagaagct	ctcccggctc	tgccacattt	ggaaagactg	tatctgttcc	120
aggtcatacc	atgtgacctt	atatgctgga	ccctgccgcc	tcagggacct	tcagagctct	180
cctttttgctg	agtcattcct	ttcttgactg	gtcactttca	gacccccact	gtgaaagcct	240
gaacccaaaa	taattttctc	tggcctagag	gtgggtgaatg	agagaagagg	ttttttgttt	300
tccttgaagc	cacaaaaagg	agttaataag	gattgttaga	gccatcagtc	tggcattaaa	360
gagcagattg	gtgtggaatt	gggcaccaac	aagaatgagt	aatatcttaa	ttaggtttta	420
aaacgatggg	accttgcgca	tacatatgta	agattcctta	gaggggaagag	aggccattcc	480
ctgttttgtt	aagagtatat	tccttaatta	acaaattaag	cagcaataga	taaaaaata	540
aataaataaa	aacaaaacaa	acaaaaaaa	aaaaaaaaa	actcga		586

<210> 80

<211> 546

<212> DNA

<213> Homo sapiens

<400> 80

tcgacscacg	cgtccgaaaa	tacttttttaa	gaaagaaaat	gacagaagca	acccaagtgt	60
ctactgatgg	ataattaaat	tatagtatat	aaatacaatg	gggccgggtg	cagtggctca	120

gccttccaaa	gtgctgggat	tacaggcatg	agccacaaca	tccagccccc	tttctctttt	180
cttacccttc	tttcctatct	tcttttccat	tttctttccc	tccctctctc	tttctttcct	240
aactattaag	gagtagattg	aattcaaggt	ctttatgtgt	gtcagttttt	gttttccaac	300
aaatattttc	taaaaaccaa	ccattgaaac	gtaatggtaa	ccactggccc	ctgtctccac	360
ctccacacct	aagaagcccc	aaatccagat	gtgtccatta	aaatcagtc	agatcttctt	420
taccaagcca	ctagatgtca	tattaatttc	acagcagaat	agggaagccc	atgccggagc	480
tgaaaacctg	caacaacaaa	aaagcatcta	aatactgcaa	aaaaaaaaaa	aaaaaaaaag	540
gcggcc						546

<210> 81

<211> 708

<212> DNA

<213> Homo sapiens

<400> 81

tcgagttttt	tttttttttt	ttttaaatta	gtcaaacatt	ttattataga	gtatatat	60
atatcaaaa	cacaaaaaac	tttattctga	aaaccaggaa	gattgtgatg	ttacagaaga	120
agattcaata	attccagtc	atttctaggg	tactaagtgt	ctgatcacct	cagygaaaac	180
aagatacaaa	tgaggccaag	gtcacaggtc	tggccaccct	gagtcctctc	gcactatttg	240
gtttctcaag	ttgagacacg	tattcccagt	cccagtttagc	caccttccaa	gtgtttgcta	300
ctagccttaa	tgggtactta	gccaagagct	acacccaaat	ataaccaaac	cttatgttaa	360
gtcataagat	taatccttca	ataataagga	tagcataaatt	ggctttgtta	cctaattcta	420
cataaacaaa	atcatcaaat	atcctggcat	aactgaaatg	acttacagag	gaagtagtaa	480
agcttggaag	tattctatgg	taactgagct	gaaaaagggg	aaatgccaaa	tgttgtaaat	540
gccatcatta	ccaataagag	tcaccaaatt	ctcagaaata	ggtaattggc	agctcaaggc	600
agtttagcact	acaagatttc	tcttgccctt	aaaaaaaaat	cattttttaag	actccttttt	660
taaaaggcta	catcaaaaaa	taaaccaaaa	taacctcgtg	ccgaattc		708

<210> 82

<211> 824

<212> DNA

<213> Homo sapiens

<400> 82

gaattcggca	cgaggagaaa	tttttcattt	ttgattttta	aaccattaga	gcagtagctg	60
agcctttcaa	gtttctcagt	caagaattag	gctatgagta	gggacagttt	tcttctctgt	120
tttattttta	tttttggtcc	cttagtgaca	ttgcaggaat	gctgctgaaa	tctacaggaa	180
gttttttaga	atgttggtta	caggagagct	gtgctgaatt	ttggactagt	gcggatgaca	240
gcagtgcctc	cgacgaaatc	agggtggagt	tgtgcttctc	ttcccttctc	acttcttctc	300
tcgtagtttc	cttctctcat	gtgagatcct	agaaggagcc	ttgttcaaac	caaattgtgt	360
tggcctggaa	gaatttgggc	agtagatgta	aagggaattt	tttataactg	ccttgtcttt	420
tcatgtgatt	tcttagttat	ggttttatgt	gaaattttct	ttgaaggggg	acttagaatt	480
tatttagtgt	gataaaaaata	gtgccaactg	gctggggcgcg	gtygctcacg	cctgtaatcc	540
cagtactttg	ggaggccgag	gtgggtgaat	caccaggtca	ggagtccaag	accagcctgg	600
ccaagatggg	gaaacctcgt	ctctactaaa	aatacaaaaa	aaacagctgg	gcgtgggtggc	660
acgcacccgt	gatcccagct	attcaggagg	ctgaggcaga	aaatttcttg	aaccaggagg	720
gcagagggtg	cagtgaagcca	agatcatgcc	actgcactcc	agcctgggtg	acagagcaag	780
actccgtctc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaac	tcga		824

<210> 83

<211> 789

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (789)

<223> n equals a,t,g, or c

<400> 83

gaattcggca	cgagcttgag	tattagctgc	gtggttaagc	tctatcatct	gggactgcag	60
ggcctaagtt	taaaaccttg	agtgaata	ttctgcttct	ttaggcctca	ttattctgaa	120
agactggata	ggagtggat	ttatcccaga	cggtagcttt	gaatttggat	ggagataatg	180
tatgtaaagg	cctctgcagt	cacggtctcc	agagatgagg	ctcttactcc	ctgtcttcca	240
gatcctcact	ggaatgcacc	ctttgcaaga	cacctctctc	agcccagctg	ttcctttctt	300
gaattcccat	agcacttcac	tgggtatttct	ttctagcact	taacagttat	gtgcctgaca	360
tgatggttaa	aattttacct	tccctttgag	actctgagca	cctctaggct	aggggaagggc	420
ttggtgcact	ccgtgtcctc	tatacttggtg	ggtaccaa	cgagaagagg	atcaatatca	480
cttgaggagc	tttgaaaaat	agattccttt	gggaggccga	ggtgggcca	tcacagggtc	540
aggagattga	gaccatcctg	gctaattgcag	tgaagccccg	tctctactaa	aaatacaaa	600
gattggctgg	ccttgggtgg	gggcacctgt	ggtcccagct	acttgggagg	ctgaggcagg	660
agagtggcgt	gaacctggga	ggcggagcct	gcagtgagcc	gggattgcgc	cgctgtactc	720
cagcctgggc	aacagagcga	gactccatct	caaaaaaaaa	aaaaaaaaat	cgaggggggt	780
ccgtaccn						789

<210> 84

<211> 811

<212> DNA

<213> Homo sapiens

<400> 84

gaattcggca	cgaggggcca	tcattgctgag	cgagactcca	catgccagga	gggggagggc	60
atttctcacc	gacagtcttc	ccatgggtcat	tccatccctc	ctcctgcctc	ctccaggcag	120
agcctctctg	gctgagccca	ctcttagatc	tgtgaaagg	cagcctctca	ccctgtcaca	180
gcacatggaa	gaccttgctg	tgagcagaga	gaactgctcc	cactatagg	tccagctttg	240
tcctccagcc	cctgccccct	cagctccacg	ccttaccctg	atggctcttt	cctgctccag	300
cctccccctga	gctgccccct	tcatectatc	tgccccctca	actaatgcag	cacagtctca	360
gtaagggtgat	ctgtaactct	ggctcagggg	cttctcaggg	ggactgaaga	gtaacatcac	420
atcccatgaa	ccactcagg	gaggggcggg	gctggctcat	actgagtcct	cacttgaaag	480
aaagctgaac	ttaggcgggt	tgtgctgggc	acggtggctc	acgcctataa	tcccaacact	540
ttggggaggcc	gaggcagggt	ggtcacctga	ggtcaggaa	tcgagaccag	cctggccaac	600
atggtgaaac	taaaaataca	aaaaaattag	ccgagcatgg	tggcaggcac	ctgtgatccc	660
agctactcag	gagaatcgct	tgaaccggga	aggtggagg	tgagtaagc	cgagatcaca	720
ccactgcact	ccagcctggg	cgacagagcg	agactccatc	tcaaaaaaaaa	aaaaaaaaaa	780
ctcgaggggg	ggcccgtacc	caatgcctta	t			811

<210> 85

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 85

cggcacgagg	tgatacttct	gaagactgca	gggagaatcc	gttttccagc	ttttttcact	60
caccagaggg	cacctgtatt	ccctatccca	caaccctagc	cccttctctc	atctttgaag	120
tggactattt	catcccctgt	ttctatcatg	acagtgcctt	ctctcatatt	gacctcttgg	180
ccttataaga	ttccttgatg	ttacactggg	tccacctgca	taatcaaggc	taatctctcc	240
atctggagat	cttaatatata	tcacatctac	aaagtccctt	tggccattga	agtaacatat	300
ttatatgtat	tcattattag	gatgtgggac	acttttgtca	gggacaggga	tttttcagcc	360
tacctttttc	ttcacctttt	gccaccactc	tcagcctgtg	gtctcaattg	ccagccttta	420
cacttgctac	cccattgtct	gggtagttca	taccagtctc	caagactagc	ctcaggcatg	480
cctcttctgg	gaatacatcc	tcttacaggc	caggatatga	ctcatgggtg	catcctaata	540

gcacttcact	tattttctact	gtcaccacac	tgatctgtaa	ttacttgatt	tgtctgactc	600
ttctgggggc	ttgtaagcat	tctggcacag	agaactatga	cttactgggg	cttacatctc	660
ttgctaaaca	cagtaccta	aatttagtag	gcattccctc	ataaacatga	atgaatgaat	720
caaagaatga	ataaacat	aggaaatgat	gttgtgttgg	tcaacttctt	tcctcatcac	780
tgttaaagat	aaaagaatgc	caagccaggt	tgttcagaca	gaagcaagca	ccacatccct	840
gagagagcag	cacatctggg	cagccatgtg	tgagaagtgc	gttgcattcc	ccatacacag	900
ttgtctttgc	agctgtactc	ttaaccactg	taaccacaga	agtggggaaa	caatagggtg	960
gggtgaagtg	aaaagaaaat	tttccaaaac	ttcattttatc	taataaatac	agatattttaa	1020
aaaaaaaaaa	aaaaaac					1037

<210> 86
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 86	
gaattcggca	cgagaggggtt
tggaatgcat	actggaaaca
tgacaaccaa	ggtcactaaa
attcaccagc	accctgcagg
ccgtctcagt	gattcaccac
atggaaggca	ctgtgccagt
agctgaaaat	ccatgagcaa
ttctcgatga	tttcagagcc
ctttatagcc	aagcacagta
gttgaggccg	ggcacattgg
cagatcactt	aagcccagga
tacaaaaaaaa	aaaaaaaaaaa
gtcgtat	

<210> 87
 <211> 690
 <212> DNA
 <213> Homo sapiens

<400> 87	
gaattcggca	cgagagcagg
tagctccagc	agcagatgat
aaggggactt	ctttgggatg
ggaagagaac	tcaaagatga
agggaaagca	gtgcgggggc
tctgaggagc	ccctcacctg
ctggaactta	gaagaatgat
actttgggag	gccgaggcgg
catggtgaaa	ccccgtctct
cctgtagtcc	cagctattca
agcttgagc	gagctgagat
gtctcaaaaa	aaaaaaaaaaa

<210> 88
 <211> 896
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
 <222> (401)
 <223> n equals a,t,g, or c

<400> 88

gaattcggca	cgagaaattg	agaaacatta	atacaaaagta	agagacaaga	gcctagtaac	60
aaatggtggc	tctttgagaa	aaggaaatta	ttaccaaaat	tttagactaa	ctgaaggcat	120
gccaatthaag	caccagattt	tgctcttaaa	cttttttgga	agctgagtag	aaattatcct	180
tttgttccat	atgatgactt	attaaataaa	atactttgca	caatatgtgc	ttttagatgg	240
agtaaacaac	atacctttta	aataattatt	ttgattgcct	atattcatat	catgatgcta	300
ccttttkgca	tttgtgcagt	gtacatkga	tattaactga	gtgttttaga	atgctggatt	360
ttagggtttca	gctttgctgt	gggtgaagg	aagtgggggg	ncttctgttt	gttggtgcca	420
ggcattatgc	tacatattat	acatctgtta	tctcatttga	tttccccaaa	tccttaagaa	480
gttgaattat	tatactcatt	ttggaaataa	gaaatgaagc	ttagagaggg	gaagaacagg	540
tttaaatcct	ggctgtaagc	cctttgggct	ttgggtttcc	taactaggga	agaggaataa	600
tagtgatgaa	aataacaatc	atctgatgat	ctttgtaatt	ttactgacgg	agtagaagcc	660
atcagaagag	aatgcccaca	tcttcctttt	gatagagcat	ctgacttgca	tctccttagt	720
aactactttc	cctcccattc	ttaaactgttc	ttttctaggg	gccaacctct	cctcttgtga	780
acgagctctc	atccttttct	ggatacacag	cttcttcttt	cctgcatact	tttttctttg	840
tacagcatga	aaatatacta	ttgtgtcttg	tttaaaaaaa	aaaaaaaaaa	actcga	896

<210> 89

<211> 857

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (550)

<223> n equals a,t,g, or c

<400> 89

gaattcggca	cgagcttatg	gtctttatta	cttacctgtc	tcatcattcc	tgtacaactg	60
tagcaaatat	aaacatcaaa	atgcctctag	atcttctttt	cctcataaca	tattttctcc	120
tttctgtcat	tttgaagtgt	ttgtatatgt	atgcccctgg	tcatttagga	atgcccattt	180
ctctttgttc	tagtgctgtt	gtgtgggtga	agggtgacct	agtktcagag	aaggggtgag	240
gaaaggcagg	ggcmaaaaga	ataaaggaaa	gagtttcttt	tgagtacmaa	taaaaactac	300
cagggaaatc	tgattttacca	aaatgttcta	gggattagat	tgcaacyatt	aaatatgatt	360
taacygaagg	acccctccgg	ccttttttat	tcccttcttt	tttactaaaa	ttctttatcg	420
aattgcagaa	tcctttttca	ttkgtctcag	taagtaaact	tcaataaatt	ataggtaaaa	480
tttagaaaac	tgaatttctt	gttagagatt	agaatgcatt	aatatattct	gccttaggct	540
gggtgcagtn	gctcacgcct	gtgaccccag	cactttggga	ggctgaggcg	ggcacatcac	600
ctgaggtcag	gagttcggga	ccagcctggc	cgacgtgggt	gaaccccgtc	tctactagaa	660
atacaaaagt	tggccaggca	tggtggcagg	cccggctact	tggtaggctg	aggcaggaga	720
atcgcttgag	ccagggaggt	ggagggttga	gtgagccgag	atcgtgccac	agccgagatc	780
tgtgagcctg	ggccacagag	cgagactcca	tctcaaaaca	acaaacaaac	aaacaaaaaa	840
aaaaaaaaaa	aactcga					857

<210> 90

<211> 561

<212> DNA

<213> Homo sapiens

<400> 90

agggatcccc	cgggctgcag	gaattcggca	cgagtctact	ctcaaaaaat	tcagaaacat	60
atatttctgt	gcatttgcac	gtgcaacagt	acacacaaac	atacataaag	agagcaattg	120

ataaggcaaa	taaggtaaca	tttaacaata	atctgatata	cataaataga	gaaagagcaa	180
ttgataaagt	aaatgaggta	aaatttaaca	ataatctgag	caaaagggtat	atgtgttttc	240
tttgagacag	tctgattctt	gcaacttatt	ctgtaagttg	gaacttattt	ccaaacatga	300
ttgaaaaaaa	accccgcact	tggcaacttc	ttctcttttt	cagcctagaa	atgtctgtgt	360
taagtgggtt	tttatttatt	gttgttgttt	gttgttattg	ttgttttgtt	gccagggtcc	420
aactcacaaa	atacgagttt	aaaaactgcg	ttgttatttt	tagagatttg	tgataatata	480
acttggtata	aaattttatt	ctcaataaat	ataattttct	tactaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaactcg	a				561

<210> 91
 <211> 655
 <212> DNA
 <213> Homo sapiens

<400> 91	
gaattcggca	cgagctcaaa
agagagaaat	gtttatggtc
cacttcctct	ctattctgag
tctaacactc	tcccagtttt
ttccagaagc	atagtatgct
tggctgtgtc	cccacccaaa
caggagggac	caggtggagc
tgatagttag	ttagtctctca
ggcactcatt	cttctgcctc
gccatgattg	taagtttctt
tttttccttt	ataaatttaa
	aaaaaaaaaa
	aaaaaactct
	gacggggggg
	ccctg
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	655

<210> 92
 <211> 848
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (81)
 <223> n equals a,t,g, or c

<400> 92	
cnaggccwrr	aaccccnnaag
ttggtcagtt	tgagggtggtg
ggtctttggc	cctagagaaa
tgactctgga	atggattatg
cgaacttttg	tatttgctgc
caaagtataa	ctgagcataa
ataaaaagtgg	gagcgaacaa
acaccctatc	cttgtgccaat
	tatttggtaca
	aggaaatata
	tgattagaag
	gawtagaacc
	60
	120
	180
	240
	300
	360
	420
	480

cccagttgtc	atcagctttt	ttagacacca	caggttgtag	cagtttgaac	aaactgaaaa	540
ctttatactt	ctgtgtgagc	tgaactcaag	tttcagaata	atcatcgcca	tgtgggaggc	600
tttttgttaa	atgcagaaga	aattttcaaaa	tattgtattt	atatctgcct	tccactgctg	660
ccaatttagt	aagcatctcc	tatacaatcg	acaataaaca	gcaaattgatg	cagttcatag	720
agtattttgc	acttggggaa	aaatatgtat	ctgaattgta	aaaagaaatg	tttggatttt	780
gtatgtcttt	tttattatta	ttaaaatact	aatgaaact	cctcaaaaaa	aaaaaaaaaa	840
aaactcga						848

<210> 93

<211> 612

<212> DNA

<213> Homo sapiens

<400> 93

gaattcggca	cgagagcgtg	ttattctcct	gcctccagat	catttaggct	ttggtaaaac	60
ctcggccaat	ttggctataa	taaaatagat	ttccttgagg	gcaggattgg	ttagggggaa	120
cagaaagctc	tgggtattat	ttcaaaatga	tttattttct	cctcctcttg	cctgaagcac	180
aaggagagtt	ctcatcgatt	ttcacagtga	gaacctggta	ggtaatactc	atttaagcat	240
gggatcctgt	gttcgtccag	acccttggag	ttttaaattc	tcagggtggt	tcaacctgag	300
ttaatttgtc	tccctctcta	gtttttgaga	ctatggatgt	tggcttttagc	tgcaggctcc	360
tgtatccacc	tccctctcta	gtttttgaga	tggcagtttg	tttcatgacc	tctatgaaga	420
gctgccatct	atctatctat	ctatctatct	atctatctat	ctatctatct	atatacctat	480
ctacctatct	atgagaggag	tcttccttga	gccaggagt	tcaagggtgc	agtgagccat	540
gatcatgcca	ctacactcca	ccctcagcaa	cagagaaaga	cactatctca	aaaaaaaaaa	600
aaaaaaaaactc	ga					612

<210> 94

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (529)

<223> n equals a,t,g, or c

<400> 94

tccacgcgtt	ggcggccgct	ctagaactag	tggatccccc	ggsctggsag	aattcggcas	60
grgccccggt	caggccctgc	ccagagagct	cctggttcct	gaactgagct	gcctctaccg	120
tgggtgggctg	ggcaggcatg	tgcccccta	gtcagagggc	accaaccac	ctactctgcc	180
cctgggtgga	tcttgggccc	gtcgtgttag	ggttgtccct	ctgggtgctg	gctgggtggga	240
tgggkgaggg	tggggagcag	ctcccagcac	ccctgctgtg	tggttcatct	tttttttagg	300
cccctgcctg	tctgcccac	tgcccctcac	ccaccctagg	ctctgcccac	cgcctggacc	360
tgcccacccc	tgaagactg	gcccctggct	ccccgcccct	cgggtctccac	gtgggtgtatg	420
gatctgtggt	cattgtccct	ctgcagaata	aagattgctc	aggcctgcct	ggaaaaaaaa	480
aaaaaaaaaaaa	aaaaaaaaact	cgaggggggg	cccgtaccca	atcgccctgng	atgat	535

<210> 95

<211> 2264

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2257)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2264)

<223> n equals a,t,g, or c

<400> 95

aaattttctca	acaccacagt	cagctaagtc	acctactgcc	accttcgaaa	aacacggaga	60
gcacctaccc	agaggagaag	gtagatttgg	agtaagccgc	cgtcgacata	attcctctga	120
tggttttttt	aacaatggtc	ccctacgaac	tgaggagat	tcttggcacc	agscctccct	180
gttcgcgcat	gattctktgg	actctggwgt	ctctaaggga	gcatatgctg	gaatcacagg	240
gaacccatct	ggttggcata	gctcttcccg	aggtcatgat	ggcatgagcc	aacgtakgna	300
ggtggcacag	ggaaccatcg	ccattggaat	ggcagcttcc	actcccggaa	aggggtgtgct	360
tttcaggaaa	agccacctat	ctttccttcc	ttgaatccag	aagctggcaa	acagcatcag	420
ttgcagtttg	aagaggagga	gtatgggaaa	acccgcctag	tgccaagcaa		480
ccatgcagac	ctattgggac	accttctgga	gtatgggaaa	acccgcctag	tgccaagcaa	540
ccctccaaga	tgctagtatt	caaaaaagtt	tccaaagagg	atcctgctgc	tgccctctct	600
gctgcattca	cctcaccagg	atctcaccat	gcaaattggga	acaaattgtc	atccgtgggt	660
ccaagtgtct	ataagaacct	ggttcctaag	cctgtaccac	ctccttccaa	gcctaattgca	720
tggaaagcta	acaggatgga	gcacaagtca	ggatcccttt	cctctagccg	ggagtctgct	780
tttaccagtc	caatctctgt	taccaaacca	gtggtactgg	ctagtgggtg	agctctgagt	840
tctcccaaag	agagtcacct	cagcaccacc	cctccaattg	agatcagctc	ctctcgtctg	900
accaagttga	cccgccgaac	caccgacagg	aagagtggat	tcttgaaaac	tctgaaggat	960
gaccggaatg	gagacttctc	agagaataga	gactgtgaca	agctggaaga	tttggaggac	1020
aacagcacac	ctgaacccaa	ggaaaatggg	gaggaaggct	gtcatcaaaa	tggctcttgc	1080
ctccctgtag	tggaagaagg	ggagggttct	tcacactctc	tagaagcaga	gcacagggtta	1140
ttgaaagcta	tgggttggca	ggaatatcct	gaaaatgatg	agaattgcct	tcccctcaca	1200
gaggatgagc	tcaaagagtt	ccacatgaag	acagagcagc	tgagaagaaa	tggcttttga	1260
aagaatggct	tcttgccagc	ccgcagttcc	agtctgttct	ccccttggag	aagcacttgc	1320
aaagcagagt	ttgaggactc	agacaccgaa	accagtagca	gtgaaacatc	agatgacgat	1380
gcctggaagt	aggcatataa	atgctcacag	ttaaactctga	cccagtaaac	tctgtgtgtt	1440
tagggagtat	acaaaagaaa	tcgttctttt	ccttttctta	tggttgttga	tacttcattc	1500
acaagggaaa	taatcatatc	ccaaagagag	agcaattggc	ttgttttgc	tttgttattg	1560
ttcttccctg	ttatctgctt	tatagagaga	agtttgtgtg	gtgggacaga	ttttttaaac	1620
acactcayac	acacacacac	atacacaccc	agtatatatg	gggcgatgca	caggtaggag	1680
ctggcagtg	aggaagagg	agacactgg	ctgcagcaac	agcttctact	accagccctt	1740
ggggcactca	cccctgtgat	caagcaatca	ttgtcaatga	caaagtgact	attgaagtta	1800
taattgtatt	aaattaatgc	taataatttg	gatattttat	tttatttttg	gctgctcggg	1860
taacttttag	ccttaaccaa	gcatatgtgg	gttttttttg	ttgttttttt	ttgttttttt	1920
tttctttttc	cttttttggg	acagctgtaa	aatattttga	tataggaaat	gttgtgttat	1980
tcttgagcc	ttgatattca	gggtggattg	taaaatataa	atttttgtga	gatttcaaag	2040
attaagatta	ttttgataac	attattttaca	gattttaaag	atgtgtttat	cacaagtctc	2100
gagggggaaa	ctactgcata	aaataactaa	cttgggaataa	atatttttga	tcagtttggga	2160
taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2220
aaaaaaaaaa	aaaaaaaaaa	aaaaaaagg	ggggggnccc	cccn		2264

<210> 96

<211> 1005

<212> DNA

<213> Homo sapiens

<220>
 <221> SITE
 <222> (488)
 <223> n equals a,t,g, or c

<400> 96
 caggaaacca aatgatgtcc ctgcccgcgc ccccccgcgc gcggtcttcc cccttgtaact 60
 ggagaagctc gaacacccgc tcacagctct ctttgctatg ggaactggga cactttttta 120
 cacgatgttg ccgcgcgtccc caccctaacc cccacctccc ggccctgagc gtgtgtcgct 180
 gccatatatt acacaaaatc atgttgtggg agccctcgtc cccctcctg cccgctctac 240
 cctgacctgg gcttgatcgc tgctggaaca ggcccatgg ggccctgccag cctgacctgc 300
 cagggtccctt agcacctgtc cccctgcctg tctccagtgg gaaggtagcc tggccaggcg 360
 gggcctcccc ttgcagcacc aggcctcggc cacaacggac gtgacatgct gcttttttta 420
 attttatatt tttatgaaaa gaaccagtgt caatccgcag accctctgtg aagccaggcc 480
 ggccgggncg agccagcagc ccctctccct agactcagag gcgccgcggg gaggggtggc 540
 cccgccgagg cttcaggggc cccctcccca ccaaaggggt cacctcacac ttgaatgtac 600
 aaccaccccc actgtcggga aggcctccgt cctcggcccc tgctctttgc tgctgtcctg 660
 tccccgagcc cctgcaggtc ccccccgcc ccccaactca agagtttagag cagggtggctg 720
 caggccttgg gcccgaggga aaggccactg ccggccactt ggggcagaca cagacacctc 780
 aaggatctgt cacggaaggc gtcctttttc cttgtagcta acgttaggcc tgagtagctc 840
 cctccatccc ttgtagacgc tccagtcctt actactgtga cggcatttcc atccctcccc 900
 tgcccgggaa gggaccttgc agggacctct ccctccaaaa aaagaaaaaa agaaaaaraa 960
 aaaaaaawa aaaactccga gggggggccc ggtacccaat tcgcc 1005

<210> 97
 <211> 556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (513)
 <223> n equals a,t,g, or c

<400> 97
 gaattcggca cgagaagatg ggcagccaat ggtgctcaaa ctcaaggact ggcctcctgg 60
 ggaagatttt cgagacatga tgccaaccag gtttgaagat ctgatggaga accttcctct 120
 gccagaatat accaaacgag atggcaggct caatctggcc tctaggctac ctagctactt 180
 tgtaaggcct gatctgggcc ccaagatgta caacgcctat ggtatgagg agaggctaaa 240
 attgctcttt tgggggactg ttgttcttat ttcaactata gaaggatata tgtggtcaat 300
 gtcagggtata gagatgattg caggcaagtg ctggagaagt gaatagtatc caagggtggtc 360
 ttgaatatgt ttgcttttgt catattgggt ttcataacat ccatgtgggc ccagaccata 420
 agcttacatg tctccagtag tgaggaagtt tctgtttaag aactctaccc aaggagccat 480
 attctcgaag gggggggccg gtacccaatt cgnctatag tggagtcgta ttacaattca 540
 ctggggccgtc cgttta 556

<210> 98
 <211> 886
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (886)
 <223> n equals a,t,g, or c

<400> 98

atttcattttt	agggcatact	gggcttactc	tcctcccagc	tgtctgtgga	ttgatttgat	60
tttaatgttc	gagttttaca	gcaacagctg	anaaaccatg	aactattcta	ggaactgtgt	120
tggaactctt	taaaaataag	aaaagaggag	gaggagagga	agaaagaaaa	ccaacttaag	180
aagccttgga	ctttggaggg	acagaaagcc	accagccaat	ggagaacaaa	gagatgtttc	240
cctttccttt	ctttcacctt	gtcattcttg	gtttccttct	gcttcaactc	ttccttcccc	300
cttaaaagtg	gtattccttg	ttgggtctgt	tgtctgtcct	tgtccttggt	gtgatcctgg	360
catggtgata	tgtccacttt	tgcattatcc	atgggtctct	accagcgcac	aagtcagtgg	420
ggaggatcta	accacgcctg	gtgggtgagga	agctgaattt	ccaggcctgc	gtcccattga	480
gcctctccat	gaactgcaga	aggcatgttc	tgcattgtta	ccagtaagtg	gtccctcttc	540
accgtgttca	ttgtcaaagt	agagcaaaact	ttaggtgttg	gtccatttgt	acactctact	600
tgtctgtctc	ccctccctcc	aaccaggggt	catgtcagtg	cacaccccat	gtgccctggc	660
gaagctggtg	ctgtgagtga	tgtttcccat	acaactcagg	gatgccaggt	ggcttaccct	720
gagatagtca	ttttggggcac	ataacagtgt	aggaatgaaa	catggatttc	attgatattt	780
aaatctgtca	atttcatttt	ttgttaattg	tttcccttga	tgacttttta	gcaatttaac	840
aaataaaatg	gacaattgtc	ttaaaaaaaaa	aaaaaaaaaa	ctcgan		886

<210> 99
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> n equals a,t,g, or c

<400> 99

cttgccatat	ancaagctga	attacctcat	aaggaacaaa	gtggagytca	cgcgktgcgc	60
cgtctagact	atgatccccg	gctgcagaat	tcggcacgag	cagtccagaa	actgcgtgcc	120
ctgccctttg	cttgggcccc	tctaccagta	tgtccagcat	gtgcccgggg	gccctcagct	180
cccctggggc	ccagcccacc	caagacacag	ctcttggctg	tgaacatgaa	gatgagccaa	240
actctagtgg	ctcttctctg	aagaaatgag	aatgcccagc	cacacccatg	cacgctttgt	300
tcttttttat	ttaatactga	ggaaccggag	tggaggggtc	ctgccgggct	gcagtgacct	360
tgagggaagt	caggagagcc	ctgggctgca	gaagagtccc	cccacaggct	ccgaagcaag	420
cttgtccttg	tgcattcaga	ctgctcacag	caggcttttg	gccctcactc	tccagatccc	480
agagagccct	ccagggtccc	cagctctcgg	gccagtgcc	amgtcctcga	aggggggccc	540
gtaaccaatt	cgccctatag	tgagtcgtat	tacaattcac	tggccgtcgt	tttaciaa	597

<210> 100
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 100

gttttttgtgt	atctgtotta	ggctttttta	tttgaggtta	ccattaagct	tgcaaataac	60
atgtttataag	ccattatggt	aaagtgatga	cagcactgat	tgaaaaagaa	aaaaacaaat	120
taacaaacaa	gcacagagat	aactaataac	actacattta	attttattcc	ccttttttaac	180
ttttttattta	tttatatatt	atagtgtctat	gtcttgaaaa	gttggtgtag	ttattatttt	240
gataggttta	tcttttagtc	tttctacaca	agatatgagt	agttttacaca	ctacaattgc	300
agtgtcataa	tattctgtgt	ttgtctgtga	gtwttgtacc	ttcagacaat	ttcttattgc	360

```

tcccttttct ttcagaatga agaactccct ttagcatttc ttatagcata ggtctggtgt 420
taatgaggtc cctcagcttt ttgtttacct gggaaaatct ttatttctct ttcacgtttg 480
aagtctattt ttactggatg tactattcta ggatgaaagt tttttccttc aacactttaa 540
atatgttatg tcaactttctc ctggcatgta aggtttccct gagaagcctg ctgcaagatg 600
tgtgggagct catttgatg ttatttgttt cttttctcty actgccttct ttttaagattc 660
tttctttatc cttgaccttt gggagtttga ttattaaatg cctcga 706

```

<210> 101

<211> 1070

<212> DNA

<213> Homo sapiens

<400> 101

```

gaattcggca cgagggtgata cttctgaaga ctgcagggag aatccgtttt ccagcttttt 60
tcatccacca gaggccacct gtattcccta tcccacaacc ctagcccctt cctctatctt 120
tgaagtggac tatttcatcc cctgtttcta tcatgacagt gccttctctc atattgaccc 180
tcttgcccta taagattcct tgtgattaca ctgggtccac ctgcataatc aaggctaatac 240
tctccatctg gagatcttaa tataatcaca tctacaaagt ccctttggcc attgaagtaa 300
catatttata tgtattcatt attaggatgt gggacacttt tgtcagggac agggattttt 360
cagcctacct ttttcttcac cttttgccac cactctcagc ctgtggtctc aatgccagcc 420
tttacactgc taccgccatt gtctgggtag ktcataccag ycctcaagac tagcctcagg 480
cattgcctct tctgggaata catcctctta caggccagga tatgactcat ggggtgcattc 540
ctaatagcac ttcamttatt tctactgtca ccacactgat ctgtaattac ttgatttgtc 600
tgactcttct gggggcttgt aagcattctg gcacagagaa ctatgactta ctggggctta 660
catctcttgc taaacacagt acctaaaatt tagtaggcat tccctcataa acatgaatga 720
atgaatcaaa gaatgaataa acatttagga aatgatgttg tgttggtcaa cttctttcct 780
catcactgtt aaagataaaa gaatgccaaag ccaggttgtt cagacagaag caagcaccac 840
atccctgaga gagcagcaca tctgggcagc catgtgtgag aagtcggttg cattccccat 900
acacagttgt ctttgagct gtactcttaa ccactgtaac cacagaagtg gggaaacaat 960
agggtggggt gaagtgaata gaaaattttc caaaacttca tttatctaata aaatacagat 1020
atttaaaaaa aaaaaaaaaa aactcgaggg gggggccgta cccaatcgcc 1070

```

<210> 102

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals stop translation

<400> 102

```

Met Phe Leu Gly Asn Ser Leu Glu Thr Leu Thr Asn Arg Ile Leu Val
  1                      5                      10                      15

```

```

Ser Leu Ala Ser Val Phe Leu Leu Pro Pro Arg Lys Gly Ala Gly Leu
          20                      25                      30

```

```

Cys Ser Arg Gln Asp Arg Arg Ala Pro His Ala Tyr Thr Ser Leu Pro
      35                      40                      45

```

```

Glu Leu Ser Pro Arg Ala Ser Gly Pro Cys Leu Glu Thr Gly Leu Ala
      50                      55                      60

```

Leu Xaa

65

<210> 103
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals stop translation

<400> 103
 Met Tyr Gln Glu Thr Arg Ser Ser Pro Thr Asn Thr Leu Arg Pro Trp
 1 5 10 15
 Pro Arg Gly Thr Ser Arg Cys Leu Arg Cys Ser Phe Cys Arg Leu Ser
 20 25 30
 Phe Ala His Ser Gln Gly Ile Gln Gln Leu Ser Cys Ser Leu Ser Arg
 35 40 45
 Thr Asp Ser Arg Ser Phe Thr Ile Ser Lys Thr Leu Trp Ala His Asn
 50 55 60
 Arg Arg His Ser Phe Gln Gly Xaa
 65 70

<210> 104
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 104
 Met Asn Ala Tyr Arg Val Lys Pro Ala Val Phe Asp Leu Leu Leu Ala
 1 5 10 15
 Val Gly Ile Ala Ala Tyr Leu Gly Met Ala Tyr Val Ala Val Gln His
 20 25 30
 Phe Ser Leu Leu Tyr Lys Thr Val Gln Arg Leu Leu Val Lys Ala Lys
 35 40 45
 Thr Gln Xaa
 50

<210> 105
 <211> 221
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals stop translation

<400> 105

```

Met Asn Val Phe Arg Ile Leu Gly Asp Leu Ser His Leu Leu Ala Met
 1             5             10             15

Ile Leu Leu Leu Gly Lys Ile Trp Arg Ser Lys Cys Cys Lys Gly Ile
      20             25             30

Ser Gly Lys Ser Gln Ile Leu Phe Ala Leu Val Phe Thr Thr Arg Tyr
      35             40             45

Leu Asp Leu Phe Thr Asn Phe Ile Ser Ile Tyr Asn Thr Val Met Lys
      50             55             60

Val Val Phe Leu Leu Cys Ala Tyr Val Thr Val Tyr Met Ile Tyr Gly
      65             70             75             80

Lys Phe Arg Lys Thr Phe Asp Ser Glu Asn Asp Thr Phe Arg Leu Glu
      85             90             95

Phe Leu Leu Val Pro Val Ile Gly Leu Ser Phe Leu Glu Asn Tyr Ser
      100             105             110

Phe Thr Leu Leu Glu Ile Leu Trp Thr Phe Ser Ile Tyr Leu Glu Ser
      115             120             125

Val Ala Ile Leu Pro Gln Leu Phe Met Ile Ser Lys Thr Gly Glu Ala
      130             135             140

Glu Thr Ile Thr Thr His Tyr Leu Phe Phe Leu Gly Leu Tyr Arg Ala
      145             150             155             160

Leu Tyr Leu Ala Asn Trp Ile Arg Arg Tyr Gln Thr Glu Asn Phe Tyr
      165             170             175

Asp Gln Ile Ala Val Val Ser Gly Val Val Gln Thr Ile Phe Tyr Cys
      180             185             190

Asp Phe Phe Tyr Leu Tyr Gly Thr Lys Gly Arg Ser Trp Asp Asp Ser
      195             200             205

Asn Ala Asp Thr Gly Leu Arg Ser Tyr Ser Ser Ile Xaa
      210             215             220

```

<210> 106

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (114)

<223> Xaa equals stop translation.

<400> 106

Met Leu Ser His Val Phe Pro Ile Cys Thr Arg Pro Cys Leu Ser Met
1 5 10 15

Tyr Phe Pro Cys Val Pro Ser Met Tyr Leu Val Tyr Phe Leu Pro Leu
20 25 30

Asn His Gly Ile Leu Leu Thr Glu Pro Tyr Val Pro Tyr Pro Ala His
35 40 45

Cys Tyr Ala Leu Phe Pro Asn Ser Cys Leu Val Gly Pro Ser Thr Pro
50 55 60

Ser Pro Cys His Arg Ile Ser Ile Ser Ala Gln Ile Pro Pro Ile Ser
65 70 75 80

Ile Ala Phe Met Tyr Tyr Pro Gln Ser Thr Leu Thr Ile Ile Phe Ser
85 90 95

Gln Asp Cys Ser Leu Leu Phe Cys Val Phe Leu Arg Gly Ile Lys Glu
100 105 110

Lys Xaa

<210> 107

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals stop translation

<400> 107

Met Glu Asn Ile Ser Xaa Asp Val Ile Val Gly Arg Cys Leu Ala Ile
1 5 10 15

Leu Lys Gly Ile Phe Gly Ser Ser Ala Val Pro Gln Pro Lys Glu Thr
20 25 30

Val Val Ser Arg Trp Arg Ala Asp Pro Tyr Val Ala Ala Gly Ser Ser
35 40 45

Gly Asn Asp Tyr Asp Leu Met Ala Gln Pro Ile Thr Pro Gly Pro Ser
50 55 60

Ile Pro Gly Ala Pro Gln Pro Ile Pro Arg Leu Phe Phe Ala Gly Glu
65 70 75 80

```
<400> 109
Met Ser Ala Ala Ser Phe Trp Pro Arg Pro Val Ala Ser Ile Ser Val
  1             5             10            15
```

Phe Ile Leu Leu Gly Ser Ser Val Thr Thr Ser Lys Thr Arg Ser Gly
 20 25 30

Val Ile Ser Ser Ala Gly Lys Pro Ile Trp Val Gln Ser Pro His Leu
 35 40 45

Ala Leu Leu Glu Val Leu Leu Gln Lys Gly Ile Val Pro Glu Lys Xaa
 50 55 60

<210> 110

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals stop translation

<400> 110

Met Leu Ser Leu Thr Val Ser Leu Lys Ser Val Ser Ile Ala Ala Gln
 1 5 10 15

Ser Leu Phe Leu Asp Leu His Phe Pro Ile Gln Met Thr Leu Val His
 20 25 30

Lys Glu Ile Ala Lys Leu Glu Thr Xaa
 35 40

<210> 111

<211> 48

<212> PRT

<213> Homo sapiens

<400> 111

Met Thr Leu Tyr Leu Asn Thr Asn Lys Asn Lys Pro Ser Ala Leu Tyr
 1 5 10 15

Ser Leu Phe Phe Cys Phe Ile Ser Thr Pro Tyr Thr Tyr Gly Leu Gln
 20 25 30

Ile Cys Tyr Lys Cys Phe Phe Ile Tyr Ile Phe Val Ile Cys Leu Tyr
 35 40 45

<210> 112

<211> 38

<212> PRT

<213> Homo sapiens

<400> 112

Met Phe Leu Thr Tyr Leu Thr Tyr Asn Val Ile Ser Leu Asn Glu Val
 1 5 10 15

Val Ser Thr Ser Ala His Gln Ile Ala Val Ile Val Asn Tyr Leu Phe
 20 25 30

Met Gly Asp Asn Leu Phe
 35

<210> 113

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 113

Met Pro His Pro Ile Trp Cys Tyr Arg Asn Ser Ala Arg Lys Val His
 1 5 10 15

Leu Phe Ala Cys Leu Phe Ile Leu Tyr Ile Leu Pro Ile Leu Tyr Ser
 20 25 30

Cys Thr Lys Asp Leu Ile Glu Asn Leu Lys Ser Ser Xaa
 35 40 45

<210> 114

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals stop translation

<400> 114

Met Leu Arg Ile Lys Ser Cys Leu Leu Leu Phe Phe Ile Phe Phe Pro
 1 5 10 15

Phe Asn Ile Lys Asp Ser Gln Val Pro Ala Asn Tyr Ile Ala Thr Phe
 20 25 30

Ser Arg Lys Cys Ser Phe Xaa
 35

<210> 115

<211> 25

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals stop translation

<400> 115
 Met Ser Leu Gln Pro Pro Phe Val Met Leu Leu Leu Ser Thr Ala Gln
 1 5 10 15
 His His Glu Leu Gly Ala Asp Thr Xaa
 20 25

<210> 116
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

<400> 116
 Met Pro Lys Gly Ile Leu Val Ser Phe Leu Cys Ala Leu Ser Pro Arg
 1 5 10 15
 Thr Gly Met Leu Gly Val Ser Phe Leu Leu Phe Ile Gly Ile Leu Leu
 20 25 30
 Arg His Thr Ser Cys Leu Phe Cys Met Val Phe Ala Lys Met Pro Leu
 35 40 45
 Ala Xaa
 50

<210> 117
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 117
 Met Cys Pro Pro Ser Gln Arg Ala Pro Thr His Leu Xaa Cys Pro Trp
 1 5 10 15
 Val Asp Pro Gly Pro Val Val Leu Gly Leu Ser Leu Trp Val Leu Ala
 20 25 30
 Gly Gly Met Gly Glu Gly Gly Glu Gln Leu Pro Ala Pro Leu Leu Cys
 35 40 45
 Gly Ser Ser Phe Phe

50

<210> 118

<211> 268

<212> PRT

<213> Homo sapiens

<400> 118

Met Glu Val Ala Glu Pro Ser Ser Pro Thr Glu Glu Glu Glu Glu Glu
 1 5 10 15

Glu Glu His Ser Ala Glu Pro Arg Pro Arg Thr Arg Ser Asn Pro Glu
 20 25 30

Gly Ala Glu Asp Arg Ala Val Gly Ala Gln Ala Ser Val Gly Ser Arg
 35 40 45

Ser Glu Gly Glu Gly Glu Ala Ala Ser Ala Asp Asp Gly Ser Leu Asn
 50 55 60

Thr Ser Gly Ala Gly Pro Lys Ser Trp Gln Val Pro Pro Pro Ala Pro
 65 70 75 80

Glu Val Gln Ile Arg Thr Pro Arg Val Asn Cys Pro Glu Lys Val Ile
 85 90 95

Ile Cys Leu Asp Leu Ser Glu Glu Met Ser Leu Pro Lys Leu Glu Ser
 100 105 110

Phe Asn Gly Ser Lys Thr Asn Ala Leu Asn Val Ser Gln Lys Met Ile
 115 120 125

Glu Met Phe Val Arg Thr Lys His Lys Ile Asp Lys Ser His Glu Phe
 130 135 140

Ala Leu Val Val Val Asn Asp Asp Thr Ala Trp Leu Ser Gly Leu Thr
 145 150 155 160

Ser Asp Pro Arg Glu Leu Cys Ser Cys Leu Tyr Asp Leu Glu Thr Ala
 165 170 175

Ser Cys Ser Thr Phe Asn Leu Glu Gly Leu Phe Ser Leu Ile Gln Gln
 180 185 190

Lys Thr Glu Leu Pro Val Thr Glu Asn Val Gln Thr Ile Pro Pro Pro
 195 200 205

Tyr Val Val Arg Thr Ile Leu Val Tyr Ser Arg Pro Pro Cys Gln Pro
 210 215 220

Gln Phe Ser Leu Thr Glu Pro Met Lys Lys Met Phe Gln Cys Pro Tyr
 225 230 235 240

Phe Phe Phe Asp Val Val Tyr Ile His Asn Gly Thr Glu Glu Lys Glu
 245 250 255

Glu Glu Asp Glu Ala Ile Glu Val Glu Ala Thr Val

260

265

<210> 119
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals stop translation

<400> 119
 Met Gly Cys Phe Pro Leu Trp Leu Val Thr Leu Ala Val Gly Asp Ala
 1 5 10 15
 Leu Pro Pro Thr Ala Cys Glu Leu Trp Gly Val Pro Ala Pro Pro Leu
 20 25 30
 His Leu Ala Glu Glu Xaa
 35

<210> 120
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals stop translation

<400> 120
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala His Xaa
 115 120

<210> 121
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 121
 Met Ile Gln Thr Phe Pro Ala Tyr Leu Cys Leu Pro Leu Phe Tyr Val
 1 5 10 15
 Leu Asp Leu Ala Leu Ala Ser Ala Pro Val Leu Ser His Ser Ala Leu
 20 25 30
 Leu Xaa

<210> 122
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 122
 Met Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
 1 5 10 15
 Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
 20 25 30
 Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg
 35 40 45
 Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu
 50 55 60
 His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile
 65 70 75 80
 Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser
 85 90 95
 Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
 100 105 110
 Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr
 115 120 125
 Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala
 130 135 140
 Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp
 145 150 155 160

Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
 165 170 175

Ala Leu

<210> 123
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 123
 Met Ile Leu Gln Ser Leu Leu Phe Leu Gln Arg Leu Leu Met Ile Ser
 1 5 10 15

Thr Lys Pro Ala Val Val Leu Leu Trp Pro Leu Leu Lys Lys Val Glu
 20 25 30

Asn Thr Leu Met Gln His Val His Pro Asn Leu Pro Ala Xaa
 35 40 45

<210> 124
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals stop translation

<400> 124
 Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn
 1 5 10 15

Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile
 20 25 30

Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys
 35 40 45

Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe
 50 55 60

Val Val Xaa

65

<210> 125

<211> 337

<212> PRT

<213> Homo sapiens

<400> 125

Met Glu Ile Arg Glu Glu Lys Lys Glu Asp Lys Val Glu Lys Leu Gln
 1 5 10 15

Phe Glu Glu Glu Asp Phe Pro Ser Leu Asn Pro Glu Ala Gly Lys Gln
 20 25 30

His Gln Pro Cys Arg Pro Ile Gly Thr Pro Ser Gly Val Trp Glu Asn
 35 40 45

Pro Pro Ser Ala Lys Gln Pro Ser Lys Met Leu Val Ile Lys Lys Val
 50 55 60

Ser Lys Glu Asp Pro Ala Ala Ala Phe Ser Ala Ala Phe Thr Ser Pro
 65 70 75 80

Gly Ser His His Ala Asn Gly Asn Lys Leu Ser Ser Val Val Pro Ser
 85 90 95

Val Tyr Lys Asn Leu Val Pro Lys Pro Val Pro Pro Pro Ser Lys Pro
 100 105 110

Asn Ala Trp Lys Ala Asn Arg Met Glu His Lys Ser Gly Ser Leu Ser
 115 120 125

Ser Ser Arg Glu Ser Ala Phe Thr Ser Pro Ile Ser Val Thr Lys Pro
 130 135 140

Val Val Leu Ala Ser Gly Ala Ala Leu Ser Ser Pro Lys Glu Ser Pro
 145 150 155 160

Ser Ser Thr Thr Pro Pro Ile Glu Ile Ser Ser Ser Arg Leu Thr Lys
 165 170 175

Leu Thr Arg Arg Thr Thr Asp Arg Lys Ser Glu Phe Leu Lys Thr Leu
 180 185 190

Lys Asp Asp Arg Asn Gly Asp Phe Ser Glu Asn Arg Asp Cys Asp Lys
 195 200 205

Leu Glu Asp Leu Glu Asp Asn Ser Thr Pro Glu Pro Lys Glu Asn Gly
 210 215 220

Glu Glu Gly Cys His Gln Asn Gly Leu Ala Leu Pro Val Val Glu Glu
 225 230 235 240

Gly Glu Val Leu Ser His Ser Leu Glu Ala Glu His Arg Leu Leu Lys
 245 250 255

Ala Met Gly Trp Gln Glu Tyr Pro Glu Asn Asp Glu Asn Cys Leu Pro

260

265

270

Leu Thr Glu Asp Glu Leu Lys Glu Phe His Met Lys Thr Glu Gln Leu
 275 280 285

Arg Arg Asn Gly Phe Gly Lys Asn Gly Phe Leu Gln Ser Arg Ser Ser
 290 295 300

Ser Leu Phe Ser Pro Trp Arg Ser Thr Cys Lys Ala Glu Phe Glu Asp
 305 310 315 320

Ser Asp Thr Glu Thr Ser Ser Ser Glu Thr Ser Asp Asp Ala Trp
 325 330 335

Lys

<210> 126

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals stop translation

<400> 126

Met Lys Glu Ala Leu His Trp Ala Leu Phe Ser Met Gln Ala Thr Gly
 1 5 10 15

His Val Leu Leu His Leu Leu Leu Pro Ala Ala Ala Pro Arg Cys His
 20 25 30

Arg Gly Arg Ala Ser Pro Gln Gly Gln Gly Leu Ile Pro His Pro Asp
 35 40 45

Leu Ser Glu Asp Thr Ala Val Lys Ala Gln Ala Leu Ala Phe Pro Ser
 50 55 60

Glu Gly Leu Asp Xaa
 65

<210> 127

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals stop translation

<400> 127

Met Asn Gly Gln Arg Met Asp Glu Leu Phe Val Leu Ile Arg Asp Gly
1 5 10 15

Phe Leu Leu Pro Thr Gly Leu Ser Ser Leu Ala Gln Leu Leu Leu Leu
20 25 30

Glu Ile Ile Glu Phe Arg Ala Ala Gly Trp Lys Thr Thr Pro Ala Ala
35 40 45

His Lys Tyr Tyr Tyr Ser Glu Ser Pro Thr Arg Xaa Pro Asp Gln Gly
50 55 60

Phe Leu Thr Ser Thr Gly Leu Ser Ser Thr His Leu Xaa
65 70 75

<210> 128

<211> 208

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 128

Met Leu His Ser Gly Leu Val His Gly Leu Ala Phe Trp Phe Asp Val
1 5 10 15

Ala Phe Ile Gly Ser Ile Met Thr Val Trp Leu Ser Thr Ala Pro Thr
20 25 30

Glu Pro Leu Thr His Trp Tyr Gln Val Arg Cys Leu Phe Gln Ser Pro
35 40 45

Leu Phe Ala Lys Ala Gly Asp Thr Leu Ser Gly Thr Cys Leu Leu Ile
50 55 60

Ala Asn Lys Arg Gln Ser Tyr Asp Ile Ser Ile Val Ala Gln Val Asp
65 70 75 80

Gln Thr Gly Ser Lys Ser Ser Asn Leu Leu Asp Leu Lys Asn Pro Phe
85 90 95

Phe Arg Tyr Thr Gly Thr Thr Pro Ser Pro Pro Pro Gly Ser His Tyr
100 105 110

Thr Ser Pro Ser Glu Asn Met Trp Asn Thr Gly Ser Thr Tyr Asn Leu
115 120 125

Ser Ser Gly Met Ala Val Ala Gly Met Pro Thr Ala Tyr Asp Leu Ser
 130 135 140

Ser Val Ile Ala Ser Gly Ser Ser Xaa Xaa His Asn Asn Leu Ile Pro
 145 150 155 160

Leu Gly Ser Ser Gly Ala Gln Gly Ser Gly Gly Gly Ser Thr Ser Ala
 165 170 175

His Tyr Ala Val Asn Ser Gln Phe Thr Met Gly Gly Pro Ala Phe Ser
 180 185 190

Met Ala Ser Pro Met Ser Ile Pro Thr Asn Thr Met His Tyr Gly Ser
 195 200 205

<210> 129

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals stop translation

<400> 129

Met Gly Lys Leu Leu Phe Pro Leu Leu Leu Ala Pro Phe Ser Pro Ile
 1 5 10 15

Asn Lys Tyr Ile Leu His Phe Ala Arg Asp Gly Val Glu Glu Val Leu
 20 25 30

Lys Phe Val Ser Xaa
 35

<210> 130

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 130

Met Leu Val Val Ala Val Ile Phe Leu His Gly Ala Gly Ala Met Asn
 1 5 10 15

Tyr Leu Ile Ala Lys Ile Leu Glu Val Gln Gly Leu Arg Glu Val Pro
 20 25 30

Cys Thr Tyr Asn Thr Arg Gly Ile Ala Pro Pro Gly Gly Asn Val Gly
 35 40 45

Phe Glu Ala Ala Ser Val Val Asp Arg Pro Cys Gly Gln Xaa
 50 55 60

<210> 131

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 131

Met Gly Phe Phe Glu Thr Ile Lys Leu Leu Leu Trp Val Val Leu Ile
 1 5 10 15

Asp Cys Val Gly Val Gly Leu Leu Ile Ala Thr Leu Met Trp Phe Ile
 20 25 30

Ser Asn Lys Tyr Leu Val Lys Arg Xaa Glu Gln Arg Leu Xaa
 35 40 45

<210> 132

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 132

Met Cys Ala Leu His Trp Leu His Trp Leu Ala Ser Trp Leu Cys Ser
 1 5 10 15

Gln Pro Cys Leu Leu Leu Pro Ser Ser Pro Val Leu Cys Gln Ala Phe
 20 25 30

Ser Pro Ser Pro Val Ser Ser Pro Leu Arg Gln Ala Ile Ala Pro Ile
 35 40 45

Trp Leu Gly Arg His Arg Gln Xaa
 50 55

<210> 133

<211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals stop translation

<400> 133
 Met Arg Glu Asp Pro Thr Trp Gly Arg Ser Leu Lys Ser Ser Leu Lys
 1 5 10 15
 Ile Leu Ser Asp Leu Ser Tyr Ser Leu Val Leu Trp Leu Thr Ala Ile
 20 25 30
 Leu Gly Leu Thr Ala Gln Lys Ser Gln Glu Lys Ser Gly Arg Ala Arg
 35 40 45
 Ile Gln Ser Ile Cys Ser Tyr Asn Val Ala Thr Ser Phe Ala Xaa
 50 55 60

<210> 134
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 134
 Met Leu Ser Leu Met Ser His Leu His Val Gln Gln His Leu Ser Ser
 1 5 10 15
 Ile Leu Leu Ile Leu Ile Val Phe Ala Phe Leu Ser Asn Pro Phe Leu
 20 25 30
 Asn Gln Xaa
 35

<210> 135
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals stop translation

<400> 135
 Met Thr Arg Trp Leu Val Gln His His Thr Ser Leu Val Gln Val Leu
 1 5 10 15

Ala Val Ser Phe Pro Ala Glu Gly Pro Gly Thr Glu Phe Pro Thr Ser
 20 25 30

Xaa

<210> 136
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals stop translation

<400> 136

Met Gly Val Leu Cys Arg Ser Leu Ala Gly Leu Gly Gly Leu Ser Leu
 1 5 10 15

Leu Gly Val Phe Cys Gly Gly Tyr Leu Met Ala Leu Ala Val Leu Ser
 20 25 30

Pro Cys Pro Pro Leu Val Gly Thr Ser Ala Gly Val Val Leu Val Val
 35 40 45

Leu Ser Trp Val Leu Cys Leu Gly Val Phe Ser Tyr Val Lys Val Ala
 50 55 60

Ala Ser Ser Leu Leu His Gly Gly Gly Arg Pro Ala Leu Leu Ala Ala
 65 70 75 80

Gly Val Ala Ile Gln Val Gly Ser Leu Leu Gly Ala Val Ala Met Phe
 85 90 95

Pro Pro Thr Ser Ile Tyr His Val Phe His Ser Arg Lys Asp Cys Ala
 100 105 110

Asp Pro Cys Asp Ser Xaa
 115

<210> 137
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals stop translation

<400> 137

Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Ser
 1 5 10 15

Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu

20

25

30

Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Gly Arg Ser
 35 40 45

Ala Ser Val Arg Ser Glu Gly Asn Thr Ser Ser Leu Trp Asn Phe Ser
 50 55 60

Ala Gly Gln Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val
 65 70 75 80

Leu Ser Ser Ala Val Tyr Thr His Gly Cys Gly Cys Val Arg Ser Ala
 85 90 95

Thr Asn Ile Thr Cys Gln Ser Ser Gly Gln Gln Arg Gln Ala Ala Arg
 100 105 110

Gln Glu Glu Glu Asn Ser Ile Cys Lys Ala His Asp Ser Arg Glu Gly
 115 120 125

Arg Leu Gly Tyr Pro Leu Ser Ala His Gln Pro Gly Ser Gly Gly Pro
 130 135 140

Asn Xaa
 145

<210> 138
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 138

Met Asn Arg Ile Leu Ser Tyr Leu Glu Thr Gly Phe Phe Ser Leu Pro
 1 5 10 15

Leu Tyr Phe Phe Leu Thr Tyr Glu Leu His Val Pro Leu Met Lys Thr
 20 25 30

Met Asn Trp Thr Cys Thr Thr Val His Val Ile Asp Xaa
 35 40 45

<210> 139
 <211> 134
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals stop translation

<400> 139

Met Ala Leu Met Glu Val Asn Leu Leu Ser Gly Phe Met Val Pro Ser
 1 5 10 15

Glu Ala Ile Ser Leu Ser Glu Thr Val Lys Lys Val Glu Tyr Asp His
 20 25 30

Gly Lys Leu Asn Leu Tyr Leu Asp Ser Val Asn Glu Thr Gln Phe Cys
 35 40 45

Val Asn Ile Pro Ala Val Arg Asn Phe Lys Val Ser Asn Thr Gln Asp
 50 55 60

Ala Ser Val Ser Ile Val Asp Tyr Tyr Glu Pro Arg Arg Gln Ala Val
 65 70 75 80

Arg Ser Tyr Asn Ser Glu Val Lys Leu Ser Ser Cys Asp Leu Cys Ser
 85 90 95

Asp Val Gln Gly Cys Arg Pro Cys Glu Asp Gly Ala Ser Gly Ser His
 100 105 110

His Xaa Ser Ser Val Ile Phe Ile Phe Cys Phe Lys Leu Leu Tyr Phe
 115 120 125

Met Glu Leu Trp Leu Xaa
 130

<210> 140
 <211> 26
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals stop translation

<400> 140

Met Gln Lys Arg Glu Arg Lys Leu Tyr Val Ile Phe Leu Tyr Leu Ala
 1 5 10 15

Phe Ile Leu Leu His Trp Gln Ser Gly Xaa
 20 25

<210> 141
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 141

Met Phe Ala Phe Val Ile Leu Val Phe Ile Thr Ser Met Trp Ala Gln
 1 5 10 15

Thr Ile Ser Leu His Val Ser Ser Ser Glu Glu Val Ser Cys
 20 25 30

<210> 142

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals stop translation

<400> 142

Met Leu Arg Cys Ala Trp Ala Leu Ala Pro Pro Val Pro Pro Pro Leu
 1 5 10 15

Val Thr Asp Leu Pro Phe Phe Phe Thr Leu Ser Pro Phe Leu Phe Ala
 20 25 30

Leu Glu Pro Pro Leu Pro Asp Leu Thr Asp Ser Ala Ser Met Ser Val
 35 40 45

Ile Val Asp Arg Arg Ser Arg Gly Ser Asp Thr Asn Cys Trp Leu Leu
 50 55 60

Asn Arg Arg Ser Lys His Pro Gly Ala Pro Arg Met Cys Thr Cys Lys
 65 70 75 80

Ala Asn Ser Asn Lys Tyr Thr Ser Ser Leu Thr Asp Xaa
 85 90

<210> 143

<211> 40

<212> PRT

<213> Homo sapiens

<400> 143

Met Arg Ala Asn Phe Arg Cys Trp Leu His Cys Thr Leu Tyr Leu Leu
 1 5 10 15

Cys Ser Pro Pro Ser Asn Gln Gly Ser Cys Gln Cys Thr Pro His Val
 20 25 30

Pro Trp Arg Ser Trp Cys Cys Glu
 35 40

<210> 144

<211> 82

<212> PRT

<213> Homo sapiens

<400> 144

Met Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro
 1 5 10 15

Thr Ser Ala Ser Gln Val Ala Gly Ile Thr Arg Glu Glu Ala Glu Gly
 20 25 30

Gln Gly Gly Lys Gly Ile Gly Ser Gln Val His Gly Pro Leu Val Lys
 35 40 45

Pro Pro Leu Leu Trp Gly Leu Arg Lys His Arg Gly Gly Val Ser Cys
 50 55 60

Ser Ala Cys Pro His Ser Pro Ala Asn Asn Val Val Thr Ser Val Pro
 65 70 75 80

Asn Leu

<210> 145

<211> 76

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals stop translation

<400> 145

Met Asn Met Cys Trp Gln Ile Pro Asn Phe Ile Leu Ile Gln Val Ser
 1 5 10 15

Ser Glu Tyr Val His Ile Leu Ile Val Ile Val Thr Lys Thr Pro Gly
 20 25 30

Val Gln Ser Gly Ser Cys Cys Ser Leu His Arg Lys Pro Met Pro Glu
 35 40 45

Thr Thr Ser Val Ala Lys Glu Glu Gly Leu Ile Gly Cys Cys Ser Arg
 50 55 60

Gly Asp Gly Ser Ser Val Ser Asn Pro Ser Leu Xaa
 65 70 75

<210> 146

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 146

Met Arg Met Pro Ser His Thr His Ala Arg Phe Val Leu Phe Tyr Leu
 1 5 10 15

Ile Leu Arg Asn Arg Ser Gly Gly Val Leu Pro Gly Cys Ser Asp Pro
 20 25 30

Glu Gly Ser Gln Glu Ser Pro Gly Leu Gln Lys Ser Pro Pro Thr Gly
 35 40 45

Ser Glu Ala Ser Leu Ser Trp Cys Ile Gln Thr Ala His Ser Arg Leu
 50 55 60

Trp Ala Leu Thr Leu Gln Ile Pro Glu Ser Pro Pro Gly Leu Pro Ala
 65 70 75 80

Leu Gly Pro Val Pro Xaa Ser Ser Lys Gly Gly Arg
 85 90

<210> 147

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals stop translation

<400> 147

Met Leu Pro Lys Pro Gln Leu Ser Val Leu Thr Leu Thr Val Ala Leu
 1 5 10 15

Ser Xaa Ile Pro Gly Thr Xaa
 20

<210> 148

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals stop translation

<400> 148

Met Glu Met Met Met Val Val Met Gly Cys Val Gln Gly Pro Gly Glu
 1 5 10 15

Gly Cys Ser Gly Lys Met Gly Lys Lys Pro Arg Pro Trp Pro Leu Val
 20 25 30

Ser Tyr Ser Ile Thr His Leu Xaa
 35 40

<210> 149
 <211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 149
 Met Leu Leu Tyr Gln Ile Asn Ile Pro Phe Ser Phe Ala Leu Ser Val
 1 5 10 15

Leu Leu Ser Leu Cys Trp Pro His Gln His Tyr Tyr Pro Cys Tyr Ile
 20 25 30

Ser Phe Xaa
 35

<210> 150
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 150
 Met Cys Val Cys Val Phe Ser Phe Cys Leu Phe Cys Leu Phe Val Phe
 1 5 10 15

Gly Met Val Leu Thr Val Leu Leu Cys His Pro Gly Trp Ser Ala Val
 20 25 30

Val Xaa

<210> 151
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 151

Met Leu Ile Phe Cys Gly Glu Tyr Trp Tyr Phe Cys Phe Asn Leu Leu
 1 5 10 15

Trp Val Val Val Pro Tyr Lys Phe Ser Phe Leu Ser Phe Gly Ser Val
 20 25 30

Ile Gln Ile Cys Pro Thr Ser Val Pro Pro Ile Gly Gln Ser Gly Ile
 35 40 45

Trp Val Xaa
 50

<210> 152

<211> 83

<212> PRT

<213> Homo sapiens

<400> 152

Met Arg Phe Leu Lys Leu Phe Ser His Asn Ile Leu Ile Gln Leu Lys
 1 5 10 15

Ile Ile Leu Lys Leu Lys Val Ser Ser Val Leu Pro Ser Val Lys Ser
 20 25 30

Leu Lys Asp Glu Arg Ile Ile Phe Ile Phe Gln Val Ser Leu Asn Lys
 35 40 45

Val Leu Ser Pro Cys Leu Arg Phe Tyr Pro Gln Arg Thr Ala Thr Phe
 50 55 60

Leu Ser Cys Gln Ile Glu Phe Val Gln Gln Leu Arg Asn Thr Gly Lys
 65 70 75 80

Ile Gln Asn

<210> 153

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 153

Met Lys Glu Lys Gln Val Tyr His Ile Ser Lys Ile Lys Glu Glu Tyr
 1 5 10 15

Ser Ile Leu Ile Cys Leu Leu Ile Val Lys Met Ser Phe Pro Gln Ile
 20 25 30

Ala Pro Ile Gln Phe Lys Arg Lys His Ser Thr Lys Ile Gln Xaa
 35 40 45

<210> 154
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 154
 Met Trp Asp Gln Arg Pro Thr Lys Gly Thr Gln Asp Phe Gln Leu Leu
 1 5 10 15
 Leu Leu Pro Gly Ile Cys Ser Ser Phe Ala Leu Leu Leu Asn Ala Leu
 20 25 30
 Pro Phe Pro Ala Pro Ser Pro Ser Ile Gly Thr Cys Leu Cys Ala Ser
 35 40 45

Xaa

<210> 155
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals stop translation

<400> 155
 Met Gln Trp Val His Ile Ala Glu Thr Gly Asn Glu Lys Phe Ser Phe
 1 5 10 15
 Phe Leu Phe Phe Phe Cys Gly Gly Trp Gly Gln Ser Leu Thr Leu Ser
 20 25 30
 Pro Arg Gln Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Pro
 35 40 45
 Pro Pro His Leu Gln Val Gln Ala Ile Leu Val Pro Pro Pro Pro Glu
 50 55 60
 Gln Leu Ala Leu Gln Val His Ala Xaa Thr Leu Gly Xaa
 65 70 75

<210> 156

<211> 35
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals stop translation

<400> 156
 Met Phe Tyr Asp Val Gln Gly Pro Ser His Ser Ser Glu Met Cys Phe
 1 5 10 15
 Phe Val Phe Phe Phe Val Cys Leu Phe Leu Phe Leu Met Asn Glu Ser
 20 25 30
 Lys Gly Xaa
 35

<210> 157
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals stop translation

<400> 157
 Met Val Leu Leu Leu Trp Arg Leu Phe Phe Pro Val Gly Leu Met Arg
 1 5 10 15
 Ile Ala Gln Pro Leu Gly His Leu Ile Lys His Arg Glu Thr Tyr Ser
 20 25 30
 Leu Arg His Trp Cys Leu His Thr Gln Val Met Leu Gly His Gly Asp
 35 40 45
 Glu Thr Ala Pro Leu Leu Ile Phe Leu Lys Lys Pro Ser Cys His Ile
 50 55 60
 Xaa
 65

<210> 158
 <211> 85
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals stop translation

<400> 158

Met Ser Ile Gln Val Leu Cys Pro Leu Phe Cys Phe Ala Ser Phe Phe
 1 5 10 15

Ile Leu Gly Ser Arg Gly Glu Cys Ala Gly Phe Tyr Thr His Val Leu
 20 25 30

Gln Asp Pro Arg Ala Trp Ala Ser Asn Asp Pro Ala Thr Gln Val Val
 35 40 45

Asn Ile Val Pro Asn Arg Glu Phe Ser Thr Leu Ala Leu Leu Leu Pro
 50 55 60

Pro His Phe Trp Asn Pro Trp Cys Pro Leu Phe Pro Cys Cys Ala Met
 65 70 75 80

Cys Pro Gln Cys Xaa
 85

<210> 159

<211> 93

<212> PRT

<213> Homo sapiens

<400> 159

Met Arg Ser Leu Ser Phe Leu Phe Thr Trp Glu Asn Leu Tyr Phe Ser
 1 5 10 15

Phe Thr Phe Glu Val Tyr Phe Tyr Trp Met Tyr Tyr Ser Arg Met Lys
 20 25 30

Val Phe Ser Phe Asn Thr Leu Asn Met Leu Cys His Phe Leu Leu Ala
 35 40 45

Cys Lys Val Ser Leu Arg Ser Leu Leu Gln Asp Val Trp Glu Leu Ile
 50 55 60

Cys Met Leu Phe Val Ser Phe Leu Leu Leu Pro Ser Phe Lys Ile Leu
 65 70 75 80

Ser Leu Ser Leu Thr Phe Gly Ser Leu Ile Ile Lys Cys
 85 90

<210> 160

<211> 42

<212> PRT

<213> Homo sapiens

<400> 160

Met Ala Gly Arg Gly Arg Gly Arg Val Ala Ser Ser Trp Val Gly Gly
 1 5 10 15

Thr Gly Pro Thr Cys Cys Gly Cys Lys Trp Pro Gly Gln Leu Thr Glu
 20 25 30

His Leu Leu Phe Ala Asp Pro Thr Leu Arg
 35 40

<210> 161
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals stop translation

<400> 161
 Met Ser Arg Ala Asn Lys Glu Ile Met Leu Leu Leu Pro Ala Asp Val
 1 5 10 15
 Pro Leu Val Tyr Ser Val Val Ser Val Gly Arg Val Thr Leu Arg Xaa
 20 25 30

<210> 162
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 162
 Met Trp Asn Phe Ser Cys Ser Thr Ser Ile Cys Glu Tyr Gly Phe Leu
 1 5 10 15
 Lys Phe Leu Val Leu Tyr Leu Leu Ser Thr Ser Met Ser Ser Pro Leu
 20 25 30
 Ile Gly Pro Glu Pro His Ser Pro Thr Lys Cys Lys Ile Lys Xaa
 35 40 45

<210> 163
 <211> 159
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals stop translation

<400> 163
 Met Val Phe Val Val Leu Leu Pro Glu Met Ile Pro Leu Thr Ala Glu
 1 5 10 15

Glu Gly Gly Gly Trp Lys Lys Ser Arg Ser Asp Pro Lys Thr Leu Pro
 20 25 30

Val Gln Ala Phe Val Phe Lys Cys Gln Ala Trp Gly Pro Arg Arg Arg
 35 40 45

Arg Glu Gly Leu Pro Trp Asp Ser Ser Lys Leu Ser Pro Leu Ser Ser
 50 55 60

Thr Arg Leu Thr Thr Cys Ser Pro Pro Pro Thr Ser Gly Arg Gly Leu
 65 70 75 80

Gln Gly Thr Gln Glu Ala Ala Pro Trp Thr Pro Gly Pro Ser Pro Thr
 85 90 95

Lys Pro Ser Val Pro Lys Ala Pro Asp Pro Glu Leu Ala Arg Thr Met
 100 105 110

Gln Ala Gly Leu Leu Trp Val Leu Ala Glu Pro Ala Thr Asn Gly Gly
 115 120 125

Arg Glu Gly Arg Arg Ser Leu Thr Phe Ser Gln Asn Lys Pro Arg Arg
 130 135 140

Asn Pro Arg Lys Ala Glu Val Leu Phe Phe Ala Asn Pro Val Xaa
 145 150 155

<210> 164

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals stop translation

<400> 164

Met Val Val Pro Ala Asp Ser Gly Gly Leu Pro Arg Arg Thr Glu Lys
 1 5 10 15

Leu Leu Cys Val Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro
 20 25 30

Val Leu Asp Val His Thr His Leu Gly Cys Ile Ile Cys Val Ala Cys
 35 40 45

Gln Pro Val Arg Thr Val Leu Ser Leu Leu Thr Ala Ser Ile Gln Glu
 50 55 60

Gly Ser Arg Leu Ser Gly His Phe Gln Thr Leu Pro His Gln Thr Asp
 65 70 75 80

Thr Thr Phe His Lys Gly Ser Lys Leu Xaa
 85 90

<210> 165
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 165
 Met Thr Leu Ile Thr Pro Ala Arg Ile Thr Leu Thr Xaa Gly Asn Lys
 1 5 10 15
 Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro
 20 25 30
 Pro Gly Cys Arg Asn Ser Ala Arg Asp Arg Cys Met His Thr Pro Leu
 35 40 45
 Cys Val Cys Met Cys Val Cys Val Cys Val Cys Arg Gly Ile Leu Val
 50 55 60

<210> 166
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals stop translation

<400> 166
 Met Ser Leu Phe Cys Leu Lys Leu Leu Ser Gly Cys Leu Trp Leu Ser
 1 5 10 15
 Gly Ser Glu Pro His His Gly Leu Gly Phe Leu Leu Trp Pro Leu Ala
 20 25 30
 Phe Ala Ser Cys Ser Ile Leu Ile Leu Asn Tyr Ala Lys Pro Phe Leu
 35 40 45
 Asn Pro Ala Pro Cys Ser Leu Cys Leu Glu Leu Pro Ser Gln Ala Phe
 50 55 60
 Leu Cys Arg Ser Phe Ser Ser His Leu Leu Ser Glu Pro Ser Leu Val
 65 70 75 80
 Thr Pro Phe His His Pro Val Cys Phe Leu Pro Ile Ile Trp Phe Pro
 85 90 95
 Trp Arg Leu Met Ser Val Ser Pro Gln Trp Asn Val Gly Leu Met Ala
 100 105 110

Gln Ala His Arg Gly His Cys Cys Val Gln Gly Ser Val Arg Met Pro
 115 120 125

Arg Cys Ala Trp Met Trp Arg Trp Pro Ala Gly Trp Gly Cys His Leu
 130 135 140

Ala Xaa
 145

<210> 167
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals stop translation

<400> 167
 Met Gly Thr Glu Gln Ser Leu Gly Tyr Arg Val Gln Gly Leu Leu Leu
 1 5 10 15

Val Leu Ser Leu His Val Ser Gln Arg Gly Leu Cys Gly Ser Leu Pro
 20 25 30

Pro Ser Met Ser Ser Glu Glu Arg Lys Gln Arg Pro Trp Ser Ser Gln
 35 40 45

Tyr Gly Glu His Cys Val Pro Asp Thr Pro Leu Arg Val Lys Val Arg
 50 55 60

Arg His Ile Leu Xaa
 65

<210> 168
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 168
 Met Arg Glu Thr Thr Pro Met Ile Gln Leu Pro Pro Ser Gly Ser Pro
 1 5 10 15

Phe Ile Cys Gly Asp Tyr Glu Tyr Tyr His Leu Arg Glu Ile Leu Asn
 20 25 30

Gly Ser Thr Asp Pro Asn His Ser Thr Ala Leu Arg Tyr Leu Ile Ile
 35 40 45

Lys Leu Pro Lys Val Lys Gly Lys Glu Arg Ile Leu Lys Ile Ala Arg
 50 55 60

Glu Lys Lys Gln Ile Thr Cys Asn Gly Ala Pro Ile Cys Leu Ala Ala
 65 70 75 80

Asp Val Ser Val Glu Thr Leu Leu Val
85

<210> 169
<211> 88
<212> PRT
<213> Homo sapiens

<400> 169
Met His Phe Trp Thr Gly Pro Arg Phe Gln Leu Gly Leu Ala Gly Val
1 5 10 15

Pro Ala Ala Gln Phe Glu Thr Ser His Ile Glu Ser Arg Ala Arg Ser
20 25 30

Arg Ala Cys Gly Lys Phe Leu Gly Phe Cys Ser Ser Arg Thr Val Pro
35 40 45

Ser Ala Trp Cys Glu Ala Leu Met Glu Pro Ala Val Ile Gly Tyr Glu
50 55 60

Thr Lys Ser Leu Pro Ile His Gly Cys Pro Phe Ile His Trp His Arg
65 70 75 80

Thr Pro Gly Thr Asn Glu Gly Asp
85

<210> 170
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals stop translation

<400> 170
Met Leu Asp Pro Ala Ala Ser Gly Thr Phe Arg Ala Leu Leu Leu Leu
1 5 10 15

Ser His Pro Phe Leu Asp Trp Ser Leu Ser Asp Pro His Cys Glu Ser
20 25 30

Leu Asn Gln Lys Xaa
35

<210> 171
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (34)

<223> Xaa equals stop translation

<400> 171

Met Ser His Asn Ile Gln Pro Leu Phe Ser Phe Leu Thr Leu Leu Ser
1 5 10 15

Tyr Phe Leu Phe His Phe Leu Ser Leu Pro Ser Ser Phe Phe Pro Asn
20 25 30

Tyr Xaa

<210> 172

<211> 36

<212> PRT

<213> Homo sapiens

<400> 172

Met Pro Ser Leu Pro Ile Arg Val Thr Lys Phe Ser Glu Ile Gly Asn
1 5 10 15

Trp Gln Leu Lys Ala Val Ser Thr Thr Arg Phe Leu Leu Pro Leu Lys
20 25 30

Lys Asn His Phe
35

<210> 173

<211> 57

<212> PRT

<213> Homo sapiens

<400> 173

Met Leu Leu Lys Ser Thr Gly Ser Phe Leu Glu Phe Gly Leu Gln Glu
1 5 10 15

Ser Cys Ala Glu Phe Trp Thr Ser Ala Asp Asp Ser Ser Ala Ser Asp
20 25 30

Glu Ile Arg Leu Glu Leu Cys Phe Leu Ser Pro Ser Thr Ser Tyr Leu
35 40 45

Val Val Ser Phe Leu Met Val Arg Ser
50 55

<210> 174

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 174

Met Tyr Val Lys Ala Ser Ala Val Thr Val Ser Arg Asp Glu Ala Leu
 1 5 10 15

Thr Pro Cys Leu Pro Asp Pro His Trp Asn Ala Pro Phe Ala Arg His
 20 25 30

Leu Leu Gln Pro Ser Cys Ser Phe Leu Glu Phe Pro Xaa
 35 40 45

<210> 175

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals stop translation

<400> 175

Met Leu Ser Glu Thr Pro His Ala Arg Arg Gly Arg Ala Phe Leu Thr
 1 5 10 15

Asp Ser Leu Pro Met Val Ile Pro Ser Leu Leu Leu Pro Pro Pro Gly
 20 25 30

Arg Ala Ser Leu Ala Glu Pro Thr Leu Arg Ser Val Lys Gly Gln Pro
 35 40 45

Leu Thr Leu Ser Gln His Met Glu Asp Leu Ala Val Ser Arg Glu Asn
 50 55 60

Cys Ser His Tyr Arg Val Gln Leu Cys Pro Pro Ala Pro Ala Pro Ser
 65 70 75 80

Ala Pro Arg Leu Thr Leu Met Ala Leu Ser Cys Ser Ser Leu Pro Xaa
 85 90 95

<210> 176

<211> 83

<212> PRT

<213> Homo sapiens

<400> 176

Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe
 1 5 10 15

Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Cys Gln Pro
 20 25 30

Leu His Leu Leu Pro His Cys Leu Gly Ser Ser Tyr Gln Ser Ser Arg

35

40

45

Leu Ala Ser Gly Met Pro Leu Leu Gly Ile His Pro Leu Thr Gly Gln
 50 55 60

Asp Met Thr His Gly Cys Ile Leu Ile Ala Leu His Leu Phe Leu Leu
 65 70 75 80

Ser Pro His

<210> 177

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals stop translation

<400> 177

Met Val Arg Ser Ser Ser His Phe Lys Phe Phe Leu Met Leu Phe Thr
 1 5 10 15

Ser Thr Leu Gln Asp Val Gly His Thr Ser His Pro Ser Ala Gln Pro
 20 25 30

Ser Ser Arg Leu Ser Asp Ser Pro Leu Ile Cys Leu Ile Asn Arg Gln
 35 40 45

Val Xaa
 50

<210> 178

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 178

Met Thr Pro Gly Val Gly Ala Glu Pro Arg Gly Glu Gly Cys Lys Gly
 1 5 10 15

Lys Ala Val Arg Gly Leu Gly Gly Glu Arg Val Ser Pro Val Leu Leu
 20 25 30

Val Leu His Leu Arg Ser Pro Ser Pro Val Glu Gly Glu Gln Ser Gln
 35 40 45

Arg Gln Trp Gly Val Gln Phe Trp Asn Leu Glu Glu Xaa
 50 55 60

<210> 179
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals stop translation

<400> 179
 Ile Leu Gly Phe Ser Phe Ala Val Gly Glu Gly Lys Trp Gly Xaa Phe
 1 5 10 15
 Cys Leu Leu Val Pro Gly Ile Met Leu His Ile Ile His Leu Leu Ser
 20 25 30
 His Leu Ile Xaa Pro Asn Pro Xaa
 35 40

<210> 180
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals stop translation

<400> 180
 Met Pro Leu Asp Leu Leu Phe Leu Ile Thr Tyr Phe Leu Leu Ser Val
 1 5 10 15
 Ile Leu Lys Val Leu Tyr Ile Asp Ala Pro Gly His Leu Gly Met Pro
 20 25 30
 Ile Ser Leu Cys Ser Ser Ala Val Val Trp Val Lys Val Asp Leu Val
 35 40 45
 Ser Glu Lys Gly Xaa
 50

<210> 181

<211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals stop translation

<400> 181
 Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr
 1 5 10 15

Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn
 20 25 30

Cys Val Val Ile Phe Arg Asp Leu Xaa
 35 40

<210> 182
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals stop translation

<400> 182
 Met Glu Arg Asp Thr Arg Glu Lys Cys Leu Trp Ser Leu Pro Tyr Pro
 1 5 10 15

Lys Leu Leu Cys Asn Leu Leu Ala Ser His Phe Leu Ser Ile Leu Ser
 20 25 30

Phe Phe Ile Tyr Ser Ile Gly Phe Leu Asp Leu Val Val Ser Asn Thr
 35 40 45

Leu Pro Val Phe Gln Phe Asp Val Thr Phe Tyr Pro Val Thr Lys Phe
 50 55 60

Ile Phe Gln Lys His Ser Met Leu Cys His Thr Ala Asn Leu Val Asn
 65 70 75 80

Val Pro Asp Met Val Trp Leu Cys Pro His Pro Asn Leu Ile Leu Asn
 85 90 95

Cys Ser Ser His Asn Pro His Met Xaa
 100 105

<210> 183
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals stop translation

<400> 183

Met Asp Tyr Glu Val Ile Ser Gln Asn Val Arg Lys Arg Tyr Arg Ala
 1 5 10 15

Leu Glu Leu Leu Tyr Leu Leu Leu Asn Leu Asn Ile Thr Ala Thr Asn
 20 25 30

Lys Gly Tyr Gln Asp Lys Val Xaa
 35 40

<210> 184
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals stop translation

<400> 184

Met Ile Tyr Phe Leu Leu Leu Leu Pro Glu Ala Gln Gly Glu Phe Ser
 1 5 10 15

Ser Ile Phe Thr Val Arg Thr Trp Xaa
 20 25

<210> 185
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals stop translation

<400> 185

Met Cys Pro Pro Ser Gln Arg Ala Pro Thr His Leu Leu Cys Pro Trp
 1 5 10 15

Val Asp Pro Gly Pro Val Val Leu Gly Leu Ser Leu Trp Val Leu Ala
 20 25 30

Gly Gly Met Gly Glu Gly Gly Glu Gln Leu Pro Ala Pro Leu Leu Cys
 35 40 45

Gly Ser Ser Phe Phe Xaa
 50

<210> 186
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals stop translation

<400> 186
 Met Leu Leu Asn Thr Ser Phe Thr Arg Glu Ile Ile Ile Ser Gln Arg
 1 5 10 15
 Glu Ser Asn Trp Leu Val Leu Leu Leu Leu Leu Phe Phe Pro Val Ile
 20 25 30
 Cys Phe Ile Glu Arg Ser Leu Cys Gly Gly Thr Asp Phe Leu Asn Thr
 35 40 45
 Leu Xaa His Thr His Thr Tyr Thr Pro Ser Ile Tyr Gly Ala Met His
 50 55 60
 Arg Xaa
 65

<210> 187
 <211> 22
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals stop translation

<400> 187
 Met Leu Leu Phe Leu Ile Leu Phe Phe Tyr Glu Lys Asn Gln Cys Gln
 1 5 10 15
 Ser Ala Asp Pro Leu Xaa
 20

<210> 188
 <211> 19
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)

<223> Xaa equals stop translation

<400> 188

Ile Pro Asn Glu Met Ala Gly Ser Ile Trp Pro Leu Gly Tyr Leu Ala
 1 5 10 15

Thr Leu Xaa

<210> 189

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals stop translation

<400> 189

Met Phe Pro Phe Pro Phe Phe His Leu Val Ile Leu Gly Phe Leu Leu
 1 5 10 15

Leu His Ser Phe Leu Pro Pro Xaa
 20

<210> 190

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals stop translation

<400> 190

Met Ser Gln Thr Leu Val Ala Leu Pro Glu Arg Asn Glu Asn Ala Gln
 1 5 10 15

Pro His Pro Cys Thr Leu Cys Ser Phe Leu Phe Asn Thr Glu Glu Pro
 20 25 30

Glu Trp Arg Gly Pro Ala Gly Leu Gln Xaa
 35 40

<210> 191

<211> 3

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals stop translation

<400> 191
Met Ser Xaa
1

<210> 192
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals stop translation

<400> 192
Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe
1 5 10 15
Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Ala Ser Leu
20 25 30
Tyr Thr Ala Thr Pro Ile Val Trp Val Xaa His Thr Ser Pro Gln Asp
35 40 45
Xaa

<210> 193
<211> 41
<212> PRT
<213> Homo sapiens

<400> 193
Thr Pro Cys Thr Val Thr Ser Pro Leu Leu Pro Leu Pro Thr Val Ile
1 5 10 15
Gly Thr Ser Thr Arg Ala Val Pro Ser Gln Trp Lys Gly Lys Gly Trp
20 25 30
Gly Leu Gly Glu Gly Trp Gly Asp Pro
35 40

<210> 194
<211> 38
<212> PRT
<213> Homo sapiens

<400> 194
Ala Arg Thr Gln Arg Val Arg Gln Cys His Leu Ala Thr Trp Gly Lys

1 5 10 15

Ala Ser Ala Ser Asn Asn Ser Leu Ser Cys Ser Leu Ile Trp Asp Phe
 20 25 30

Lys Thr Gln Met Lys Thr
 35

<210> 195

<211> 37

<212> PRT

<213> Homo sapiens

<400> 195

His Thr His Pro Pro Pro Ser Ala Cys Leu His His Leu Lys Ser Lys
 1 5 10 15

Phe His Leu Lys Ile Ser Phe Leu Phe Phe Phe Phe Leu Phe Leu Phe
 20 25 30

Val Tyr Thr Asn Ile
 35

<210> 196

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Met Val Pro Arg Thr Ser His Thr Ala Ala Phe Leu Ser Asp Thr Lys
 1 5 10 15

Asp Arg Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys
 20 25 30

Val Pro Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro
 35 40 45

Gln Val Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp
 50 55 60

Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe Leu Glu
65 70 75 80

Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys
85 90 95

Arg Asn Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu
100 105 110

Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn
115 120 125

Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg
130 135 140

His Xaa Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Xaa Gln
145 150 155 160

Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met
165 170 175

Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu
180 185 190

Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln
195 200 205

Val Lys Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys
210 215 220

<210> 197

<211> 239

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 197

Met Glu Gln Thr Trp Thr Arg Asp Tyr Phe Ala Glu Asp Asp Gly Glu
1 5 10 15

Met Val Pro Arg Thr Ser His Thr Ala Ala Phe Leu Ser Asp Thr Lys
20 25 30

Asp Arg Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys
 35 40 45

Val Pro Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro
 50 55 60

Gln Val Gln Thr Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn Asp
 65 70 75 80

Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe Leu Glu
 85 90 95

Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys
 100 105 110

Arg Asn Thr Glu Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu
 115 120 125

Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala Asp Val Glu Asn
 130 135 140

Leu Asn Ser Gln Asn Glu Ala Glu Leu Arg Arg Gln Phe Glu Glu Arg
 145 150 155 160

His Xaa Glu Thr Glu His Val Tyr Glu Leu Leu Glu Asn Lys Xaa Gln
 165 170 175

Leu Leu Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met
 180 185 190

Ala Ala Leu Val Glu Ala Glu Lys Glu Cys Asn Leu Glu Leu Ser Glu
 195 200 205

Lys Leu Lys Gly Val Thr Lys Asn Trp Glu Asp Val Pro Gly Asp Gln
 210 215 220

Val Lys Pro Asp Gln Tyr Thr Glu Ala Leu Ala Gln Arg Asp Lys
 225 230 235

<210> 198

<211> 29

<212> PRT

<213> Homo sapiens

<400> 198

Tyr Phe Ala Glu Asp Asp Gly Glu Met Val Pro Arg Thr Ser His Thr
 1 5 10 15

Ala Ala Phe Leu Ser Asp Thr Lys Asp Arg Gly Pro Pro
 20 25

<210> 199

<211> 27

<212> PRT

<213> Homo sapiens

<400> 199

Gly Pro Pro Val Gln Ser Gln Ile Trp Arg Ser Gly Glu Lys Val Pro
 1 5 10 15

Phe Val Gln Thr Tyr Ser Leu Arg Ala Phe Glu
 20 25

<210> 200

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200

Asn Asp Leu Lys Lys Glu Asn Phe Ser Leu Lys Leu Xaa Ile Tyr Phe
 1 5 10 15

Leu Glu Glu Arg Met Gln Gln Lys
 20

<210> 201

<211> 22

<212> PRT

<213> Homo sapiens

<400> 201

Leu Lys Val Glu Val Glu Ser Leu Lys Arg Glu Leu Gln Asp Lys Lys
 1 5 10 15

Gln His Leu Asp Lys Thr
 20

<210> 202

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 202

Glu Leu Arg Arg Gln Phe Glu Glu Arg His Xaa Glu Thr Glu His Val
 1 5 10 15

Tyr Glu Leu Leu Glu
 20

<210> 203

<211> 25
 <212> PRT
 <213> Homo sapiens

<400> 203
 Gln Glu Glu Ser Arg Leu Ala Lys Asn Glu Ala Ala Arg Met Ala Ala
 1 5 10 15

Leu Val Glu Ala Glu Lys Glu Cys Asn
 20 25

<210> 204
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 204
 His Thr Ala Ala Phe Leu Ser Asp Thr Lys Asp Arg Gly Pro Pro Val
 1 5 10 15

Gln Ser Gln Ile Trp Arg Ser Gly Glu
 20 25

<210> 205
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 205
 Gln Thr Tyr Ser Leu Arg Ala Phe Glu Lys Pro Pro Gln Val Gln Thr
 1 5 10 15

Gln Ala Leu Arg Asp Phe Glu Lys His Leu Asn
 20 25

<210> 206
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 206
 Glu Arg Met Gln Gln Lys Tyr Glu Ala Ser Arg Glu Asp Ile Tyr Lys
 1 5 10 15

Arg Asn Thr Glu Leu Lys Val Glu
 20

<210> 207
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 207
 Lys Arg Glu Leu Gln Asp Lys Lys Gln His Leu Asp Lys Thr Trp Ala

1

5

10

15

Asp Val Glu Asn Leu Asn Ser Gln Asn
 20 25

<210> 208

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 208

Leu Leu Glu Asn Lys Xaa Gln Leu Leu Gln Glu Glu Ser Arg Leu Ala
 1 5 10 15

Lys Asn Glu Ala Ala Arg Met Ala Ala Leu
 20 25

<210> 209

<211> 23

<212> PRT

<213> Homo sapiens

<400> 209

Asn Leu Glu Leu Ser Glu Lys Leu Lys Gly Val Thr Lys Asn Trp Glu
 1 5 10 15

Asp Val Pro Gly Asp Gln Val
 20

<210> 210

<211> 228

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 210

Ile Arg His Glu Leu Leu Pro Ala Leu His Leu Gln Ala His Asp Ala
1 5 10 15

Ala Tyr Asn Leu Leu Phe Phe Ala Ser Gly Gly Gly Lys Phe Asn Tyr
20 25 30

Gln Gly Thr Lys Arg Trp Leu Glu Asp Asn Leu Asp His Thr Gly Glu
35 40 45

Arg Pro Arg Val Gly Val Gly Val Pro Arg Trp Trp Cys Arg Gly Glu
50 55 60

Ala Xaa Arg Pro Arg Gly Cys His Gly Gly Ser Gln Glu Ala Gln Arg
65 70 75 80

Glu Gly Arg Gly Pro Leu Pro Gly Pro His Pro Pro Arg Gln Leu Ser
85 90 95

Val Ser Cys Arg Leu Gln Pro Ala Ser Gly Gln Cys Gly Leu Arg Ala
100 105 110

Val Pro Gly His Arg Gly Pro Gly Gln Gln Pro Ala Pro Ala Xaa Val
115 120 125

Arg Pro Xaa Arg Glu Gly Thr Leu Gln His Ala Phe Xaa Arg Glu Leu
130 135 140

Glu Thr Val Ala Ala His Gln Phe Pro Glu Val Arg Phe Ser Met Val
145 150 155 160

His Lys Arg Ile Asn Leu Ala Glu Asp Val Leu Ala Trp Glu His Glu
165 170 175

Arg Phe Ala Ile Arg Arg Leu Pro Ala Phe Thr Leu Ser His Leu Glu
180 185 190

Ser His Arg Asp Gly Gln Arg Ser Ser Ile Met Asp Val Arg Ser Arg
195 200 205

Val Asp Ser Lys Thr Leu Ile Arg Leu Pro Gln Pro Pro Lys Val Leu
210 215 220

Gly Leu Arg Val
225

<210> 211

<211> 49

<212> PRT

<213> Homo sapiens

<400> 211

His Glu Asp His Cys Arg Gly Pro Asp Ser Ser His Leu Gln Pro Asp

1

5

10

15

Arg Glu Gly Asp Thr Pro Arg His Ala Gly Val His Arg Ala Asp Asp
 20 25 30

Pro Ala Gly Ala Ala Gly Leu Gly Asp Gly Leu Ala His Gln Pro Ala
 35 40 45

Ala

<210> 212

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 212

Gly Arg Gln Leu Val Asp Lys Asp Ser Thr Phe Leu Ser Thr Leu Glu
 1 5 10 15

His Xaa Leu Ser Xaa Tyr Leu Lys Asp Val Lys Gln His His Val Lys
 20 25 30

Ala Asp Lys Arg Asp Pro Glu Phe Val Phe Tyr Asp Gln Leu Lys Gln
 35 40 45

Val

<210> 213

<211> 52

<212> PRT

<213> Homo sapiens

<400> 213

Thr Cys Ser Cys Val His Thr Leu Phe Pro Tyr Ala Phe Phe Met Phe
 1 5 10 15

Ser His Met Cys Ser Arg Val Pro Cys Ile His Ser Tyr Val Cys Pro
 20 25 30

Ser His Gly His Gly Ser Ala Leu Glu Arg Val Trp Val Gly Met Cys
 35 40 45

Asn Leu Ser Ser
 50

<210> 214
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 214
 Ile Tyr Leu Asn Ile Gln Val Val Arg Gly Gln Arg Lys Val Ile Cys
 1 5 10 15

Leu Leu Lys Glu Gln Ile Ser Asn Glu Gly Glu Asp Lys Ile Phe Leu
 20 25 30

Ile Asn Lys Leu His Ser Ile Tyr
 35 40

<210> 215
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 215
 Glu Arg Lys Glu Arg Glu Glu Arg Ser Arg Val Gly Thr Thr Glu Glu
 1 5 10 15

Ala Ala Ala Pro Pro Ala Leu Leu Thr Asp Glu
 20 25

<210> 216
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 216
 Arg His Glu Met Glu Asn Thr
 1 5

<210> 217
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 217
 Tyr Pro Leu Leu Leu Phe Lys Arg Glu
 1 5

<210> 218
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 218
 His Pro Ser Asn His Cys Ser Asp Val His Phe His

1

5

10

<210> 219
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 219
 Ile Asp Tyr Thr Asp Lys Met Tyr Trp Ile
 1 5 10

<210> 220
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 220
 Leu Thr Leu His Leu Arg Gly Ser Ser Asp Thr Val Ser Val Leu Gln
 1 5 10 15
 Met Lys Met Arg Phe Phe Ser Ser Pro Cys Gly Lys Ala Ala Val Asp
 20 25 30
 Pro Ala Asp Arg Cys Lys Glu Val Gln Gln Ile Arg Asp
 35 40 45

<210> 221
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 221
 Gln His Pro Ser Lys Ile Pro Val Ile Ile Glu Arg Tyr Lys Gly Glu
 1 5 10 15
 Lys Gln Leu Pro Val Leu Asp Lys Thr Lys Phe Leu Val Pro Asp His
 20 25 30
 Val Asn Met Ser Glu Leu Val Lys Ile Ile Arg Arg Arg Leu Gln Leu
 35 40 45
 Asn Pro
 50

<210> 222
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 222
 Thr Gln Ala Phe Phe Leu Leu Val Asn Gln His Ser Met Val Ser Val
 1 5 10 15
 Ser Thr Pro Ile Ala Asp Ile Tyr Glu Gln Glu Lys Asp Glu Asp Gly

20

25

30

Phe Leu Tyr Met Val Tyr Ala Ser Gln Glu Thr Phe Gly Phe
 35 40 45

<210> 223

<211> 19

<212> PRT

<213> Homo sapiens

<400> 223

Ala Glu Gly Arg Ile Leu Ala Ser Pro Val Arg Val Pro Ser Ser His
 1 5 10 15

Thr Gly Ala

<210> 224

<211> 59

<212> PRT

<213> Homo sapiens

<400> 224

Leu Ala Pro His Gly Pro Phe His Gln Cys Gly Gly Arg Phe Ser Gln
 1 5 10 15

Ala Val Arg Ser Gly Leu Ile Pro Cys His Arg Ala Trp Leu Cys Gln
 20 25 30

Val Ser Leu Val Ser Gln Arg Leu Glu Gly Val Lys Gly Gln Gly Ser
 35 40 45

Ala Pro Pro Pro Ala Ser Leu Gly Arg Pro Val
 50 55

<210> 225

<211> 45

<212> PRT

<213> Homo sapiens

<400> 225

Glu Phe Gly Thr Ser Phe Thr Pro Cys Ser Leu Ser Cys Thr His Thr
 1 5 10 15

His Thr His Thr Pro Gln Glu Thr Leu Pro Gln Leu Ser Pro Asn Pro
 20 25 30

Ala Glu Gln Pro Ser Val Ala Pro Gln Cys Leu Lys Asn
 35 40 45

<210> 226

<211> 19

<212> PRT

<213> Homo sapiens

<400> 226

Ala Cys Glu Gly Pro Ala Trp Glu Ser Tyr Thr Leu Ser Pro Ser Ala
 1 5 10 15

Lys Gln Pro

<210> 227

<211> 9

<212> PRT

<213> Homo sapiens

<400> 227

Ile Asn Gln Asn His Ser Ile Leu Lys
 1 5

<210> 228

<211> 28

<212> PRT

<213> Homo sapiens

<400> 228

His Arg Ile His Phe Thr Tyr Leu Thr Ser Thr Ile Ser Ser Asp Thr
 1 5 10 15

Phe Ser Met Lys Gln Thr Ile Ala Ile Phe Lys Ile
 20 25

<210> 229

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 229

Asn Phe Ser Thr Pro Gln Ser Xaa Xaa Ser Pro Thr Ala Thr Phe Glu
 1 5 10 15

Lys His Gly Glu His Leu Pro Arg Gly Glu Gly Arg Phe Gly Val Ser
 20 25 30

Arg Arg Arg His Asn Ser Ser Asp Gly Phe Phe Asn Asn Gly Pro Leu
 35 40 45

Arg Thr Ala Gly Asp Ser Trp His Gln Xaa Ser Leu Phe Arg His Asp
 50 55 60

Ser Val Asp Ser Gly Val
 65 70

<210> 230

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 230

Ser Lys Gly Ala Tyr Ala Gly Ile Thr Gly Asn Pro Ser Gly Trp His
 1 5 10 15

Ser Ser Ser Arg Gly His Asp Gly Met Ser Gln Arg Xaa Xaa Gly Gly
 20 25 30

Thr Gly Asn His Arg His Trp Asn Gly Ser Phe His Ser Arg Lys Gly
 35 40 45

Cys Ala Phe Gln Glu Lys Pro Pro
 50 55

<210> 231

<211> 53

<212> PRT

<213> Homo sapiens

<400> 231

Arg Lys Leu Ser Thr Gly Pro Phe Ser Ala Cys Lys Pro Arg Ala Thr
 1 5 10 15

Cys Cys Phe Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu
 20 25 30

Asp Gly His Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys
 35 40 45

Leu Lys Ile Leu Gln
 50

<210> 232
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 232
 Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu Asp Gly His
 1 5 10 15

Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys
 20 25

<210> 233
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 233
 Cys Cys Gly Ala Lys Arg Ile Met Lys Glu Ala Leu His Trp Ala Leu
 1 5 10 15

Phe Ser Met Gln Ala Thr Gly His Val
 20 25

<210> 234
 <211> 196
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 234
 Pro Pro Ala Gly Ala Thr Ser Pro Gly Arg Ile Ile Xaa Pro Xaa Ser
 1 5 10 15

Ala Val Leu Ile Pro Ser Pro Val Lys Ser Tyr Arg Gly Trp Leu Val
 20 25 30

Met Gly Glu Pro Ser Arg Glu Glu Tyr Lys Ile Gln Ser Phe Asp Ala
 35 40 45

Glu Thr Gln Gln Leu Leu Lys Thr Ala Leu Lys Asp Pro Gly Ala Val
 50 55 60

Asp Leu Glu Lys Val Ala Asn Val Ile Val Asp His Ser Leu Gln Asp
 65 70 75 80

Cys Val Phe Ser Lys Glu Ala Gly Arg Met Xaa Tyr Ala Ile Ile Gln
 85 90 95

Ala Glu Ser Lys Gln Ala Gly Gln Ser Val Phe Arg Arg Gly Leu Leu
 100 105 110

Asn Arg Leu Gln Gln Glu Tyr Gln Ala Arg Glu Gln Leu Xaa Ala Arg
 115 120 125

Ser Leu Gln Gly Trp Val Cys Tyr Val Thr Phe Ile Cys Asn Ile Phe
 130 135 140

Asp Tyr Leu Arg Val Asn Asn Met Pro Met Met Ala Leu Val Asn Pro
 145 150 155 160

Val Tyr Asp Cys Leu Phe Arg Leu Ala Gln Pro Asp Ser Leu Ser Lys
 165 170 175

Glu Glu Glu Val Asp Cys Leu Val Leu Gln Leu His Arg Val Gly Glu
 180 185 190

Gln Leu Glu Lys
 195

<210> 235

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 235

Pro Gly Arg Ile Ile Xaa Pro Xaa Ser Ala Val Leu Ile Pro Ser Pro
 1 5 10 15

Val Lys Ser Tyr Arg Gly Trp Leu
 20

<210> 236
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 236
 Lys Gln Ala Gly Gln Ser Val Phe Arg Arg Gly Leu Leu Asn Arg Leu
 1 5 10 15
 Gln Gln Glu Tyr Gln Ala Arg Glu Gln
 20 25

<210> 237
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 237
 Tyr Asp Cys Leu Phe Arg Leu Ala Gln Pro Asp Ser Leu Ser Lys Glu
 1 5 10 15
 Glu Glu Val Asp Cys
 20

<210> 238
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 238
 Met Lys Arg Thr Ser Val Asn Pro Gln Thr Leu Cys Glu Ala Arg Pro
 1 5 10 15
 Ala Gly Xaa Ser Gln Gln Pro Leu Ser Leu Asp Ser Glu Ala Pro Arg
 20 25 30
 Gly Gly Val Ala Pro Pro Arg Leu Gln Gly Pro Pro Pro His Gln Arg
 35 40 45
 Val His Leu Thr Leu Glu Cys Thr Thr His Pro Thr Val Gly Lys Ala
 50 55 60
 Ser Val Leu Gly Pro Cys Leu Leu Leu Leu Ser Cys Pro Arg Ala Pro
 65 70 75 80
 Ala Gly Pro Pro Pro Pro Pro His Ser Arg Val Arg Ala Gly Gly Cys
 85 90 95
 Arg Pro Trp Ala Arg Arg Glu Gly His Cys Arg Pro Leu Gly Ala Asp
 100 105 110

Thr Asp Thr Ser Arg Ile Cys His Gly Arg Arg Pro Phe Ser Leu
 115 120 125

<210> 239
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 239
 Met Ser Leu Pro Ala Ala Pro Ala Gly Arg Leu Ser Pro Leu Tyr Trp
 1 5 10 15
 Arg Ser Ser Asn Thr Arg Ser Gln Leu Ser Leu Leu Trp Glu Leu Gly
 20 25 30
 His Phe Phe Thr Arg Cys Cys Arg Arg Pro His Pro Asn Pro His Leu
 35 40 45
 Pro Ala Leu Ser Val Cys Arg Cys His Ile Leu His Lys Ile Met Leu
 50 55 60
 Trp Glu Pro Ser Ser Pro Leu Leu Pro Ala Leu Pro
 65 70 75

<210> 240
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 240
 Met Thr Ser Pro Gly Gln Gly Arg Ala Gly Arg Arg Gly Asp Glu Gly
 1 5 10 15
 Ser His Asn Met Ile Leu Cys Lys Ile Trp Gln Arg His Thr Leu Arg
 20 25 30
 Ala Gly Arg Trp Gly Leu Gly Trp Gly Arg Arg Gln His Arg Val Lys
 35 40 45
 Lys Cys Pro Ser Ser His Ser Lys Glu Ser Cys Asp Arg Val Phe Glu
 50 55 60
 Leu Leu Gln Tyr Lys Gly Glu Ser Arg Pro Ala Gly Ala Ala Gly Arg
 65 70 75 80
 Asp Ile Ile Trp Phe Pro
 85

<210> 241
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 241
 Pro Ser Leu Arg Gly Pro Lys Ala Gly Ala Pro Pro Arg Trp Arg Pro

1

5

10

15

Leu

<210> 242

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 242

Asn	Leu	Val	Asp	Pro	Pro	Xaa	Cys	Arg	Asn	Ser	Ala	Arg	Glu	Thr	Leu
1					5				10					15	

Lys	Leu	Gly	Arg	Val	Glu	Val	Ser	Ile
		20					25	

<210> 243

<211> 7

<212> PRT

<213> Homo sapiens

<400> 243

Lys	Ala	Gly	Ala	Pro	Pro	Arg
1				5		

<210> 244

<211> 6

<212> PRT

<213> Homo sapiens

<400> 244

Cys	Arg	Asn	Ser	Ala	Arg
1			5		

<210> 245

<211> 109

<212> PRT

<213> Homo sapiens

<400> 245

Gln	Asp	Ser	Arg	Lys	Met	Leu	Pro	Ser	Thr	Ser	Val	Asn	Ser	Leu	Val
1				5					10					15	

Gln	Gly	Asn	Gly	Val	Leu	Asn	Ser	Arg	Asp	Ala	Ala	Arg	His	Thr	Ala
		20						25					30		

Gly	Ala	Lys	Arg	Tyr	Lys	Tyr	Leu	Arg	Arg	Leu	Phe	Arg	Phe	Arg	Gln
		35					40					45			

Met Asp Phe Glu Phe Ala Ala Trp Gln Met Leu Tyr Leu Phe Thr Ser
 50 55 60

Pro Gln Arg Val Tyr Arg Asn Phe His Tyr Arg Lys Gln Thr Lys Asp
 65 70 75 80

Gln Trp Ala Arg Asp Asp Pro Ala Phe Leu Val Leu Leu Ser Ile Trp
 85 90 95

Leu Cys Val Ser Thr Ile Gly Phe Gly Phe Val Leu Asp
 100 105

<210> 246

<211> 117

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 246

Asn Xaa Gln Ser Arg Asp Tyr Asp Val Glu Trp Gly Tyr Ala Phe Asp
 1 5 10 15

Val His Leu Asn Ala Phe Tyr Pro Leu Leu Val Ile Leu His Phe Ile
 20 25 30

Gln Leu Phe Phe Ile Asn His Val Ile Leu Thr Asp Thr Phe Ile Gly
 35 40 45

Tyr Leu Val Gly Asn Thr Leu Trp Leu Val Ala Val Gly Tyr Tyr Ile
 50 55 60

Tyr Val Thr Phe Leu Gly Tyr Ser Ala Leu Pro Phe Leu Lys Asn Thr
 65 70 75 80

Val Ile Leu Leu Tyr Pro Phe Ala Pro Leu Ile Leu Leu Tyr Gly Leu
 85 90 95

Ser Leu Ala Leu Gly Trp Asn Phe Thr His Thr Leu Cys Ser Phe Tyr
 100 105 110

Lys Tyr Arg Val Lys
 115

<210> 247

<211> 45

<212> PRT

<213> Homo sapiens

<400> 247

Ser Val Asn Ser Leu Val Gln Gly Asn Gly Val Leu Asn Ser Arg Asp
 1 5 10 15

Ala Ala Arg His Thr Ala Gly Ala Lys Arg Tyr Lys Tyr Leu Arg Arg
 20 25 30

Leu Phe Arg Phe Arg Gln Met Asp Phe Glu Phe Ala Ala
 35 40 45

<210> 248

<211> 23

<212> PRT

<213> Homo sapiens

<400> 248

Val Ile Leu Thr Asp Thr Phe Ile Gly Tyr Leu Val Gly Asn Thr Leu
 1 5 10 15

Trp Leu Val Ala Val Gly Tyr
 20

<210> 249

<211> 16

<212> PRT

<213> Homo sapiens

<400> 249

Gly Trp Asn Phe Thr His Thr Leu Cys Ser Phe Tyr Lys Tyr Arg Val
 1 5 10 15

<210> 250

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 250

Ser Ala Ser Xaa Thr Ser Phe Pro Gly Ile Asn Thr Glu Gly Val Ala
 1 5 10 15

Leu Ala Ser Tyr Gly Met Glu Asp Xaa Gly Trp Phe Xaa Pro Trp Cys
 20 25 30

Leu Leu Gln Gly Leu Arg Arg Lys Val Gln Ser Leu Gly Val Leu
 35 40 45

<210> 251
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 251
 Phe Cys Gln Gly Glu Val Thr Arg Phe Val Ser Ser Ser Gln Arg Met
 1 5 10 15

Leu Thr Thr Asp Asp Lys Ala Val Val Leu Lys Arg Ile His Glu Val
 20 25 30

His Val Lys Met Asp Arg Ser Leu Glu Tyr Gln Pro Val Glu Cys Ala
 35 40 45

Ile

<210> 252
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 252
 Val Ile Asn Ala Ala Gly Ala Trp Ser Ala Gln Ile Ala Ala Leu Ala
 1 5 10 15

Gly Val Gly Glu Gly Pro Pro Gly Thr Leu Gln Gly Thr Lys Leu Pro
 20 25 30

Val Glu Pro Arg Lys Arg Tyr Val Tyr Val Trp His Cys Pro
 35 40 45

<210> 253
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 253
 Gln Gly Pro Gly Leu Glu Thr Pro Leu Val Ala Asp Thr Ser Gly Ala
 1 5 10 15

Tyr Phe Arg Arg Glu Gly Leu Gly Ser Asn Tyr Leu Gly Gly Arg Ser
 20 25 30

Pro Thr Glu Gln Glu Glu Pro Asp Pro Ala Asn Leu Glu Val Asp His
 35 40 45

<210> 254
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 254
 Asp Phe Phe Gln Asp Lys Val Trp Pro His Leu Ala Leu Arg Val Pro
 1 5 10 15
 Ala Phe Glu Thr Leu Lys Val Gln Ser Ala Trp Ala Gly Tyr Tyr Asp
 20 25 30
 Tyr Asn Thr Phe Asp Gln Asn Gly Val Val Gly Pro His Pro Leu
 35 40 45

<210> 255
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 255
 Val Val Asn Met Tyr Phe Ala Thr Gly Phe Ser Gly His Gly Leu Gln
 1 5 10 15
 Gln Ala Pro Gly Ile Gly Arg Ala Val Ala Glu Met Val Leu Lys Gly
 20 25 30
 Arg Phe Gln Thr Ile Asp Leu Ser Pro Phe Leu Phe Thr Arg Phe Tyr
 35 40 45
 Leu Gly Glu Lys Ile Gln Glu Asn Asn Ile Ile
 50 55

<210> 256
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 256
 Ile Arg His Glu Ser Ile Ser Gly Ser Asp Phe Glu Lys Phe Cys Cys
 1 5 10 15
 Val Thr Gln Ile Arg Lys Ser His Ile Phe Gly Leu Val Pro Leu Arg
 20 25 30
 Thr Lys Thr Cys Asn Lys Arg Tyr Leu Leu Ser Ser Phe Ala
 35 40 45

<210> 257
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 257

Cys Cys Val Thr Gln Ile Arg Lys Ser His Ile Phe Gly Leu Val Pro
 1 5 10 15

Leu Arg Thr Lys Thr Cys Asn Lys
 20

<210> 258

<211> 51

<212> PRT

<213> Homo sapiens

<400> 258

Asn Ser Ala Arg Ala Gly Ser Ser Arg Arg Arg Arg Ser Ile Gln Asn
 1 5 10 15

Gln Glu Ala Phe Asp Leu Asp Val Ala Val Lys Glu Asn Lys Asp Asp
 20 25 30

Leu Asn His Val Asp Leu Asn Val Cys Thr Ser Phe Ser Gly Pro Gly
 35 40 45

Arg Ser Gly
 50

<210> 259

<211> 21

<212> PRT

<213> Homo sapiens

<400> 259

Asn Gln Glu Ala Phe Asp Leu Asp Val Ala Val Lys Glu Asn Lys Asp
 1 5 10 15

Asp Leu Asn His Val
 20

<210> 260

<211> 16

<212> PRT

<213> Homo sapiens

<400> 260

Met Ile Asn Cys Gly Ile Leu Val Phe Lys Met Arg Ile Val Phe Lys
 1 5 10 15

<210> 261

<211> 20

<212> PRT

<213> Homo sapiens

<400> 261

Pro Met Val Leu Lys Leu Lys Asp Trp Pro Pro Gly Glu Asp Phe Arg
 1 5 10 15

Asp Met Met Pro
 20

<210> 262

<211> 16

<212> PRT

<213> Homo sapiens

<400> 262

Tyr Phe Val Arg Pro Asp Leu Gly Pro Lys Met Tyr Asn Ala Tyr Gly
 1 5 10 15

<210> 263

<211> 9

<212> PRT

<213> Homo sapiens

<400> 263

Asn Ser Ala Arg Glu Asp Gly Gln Pro
 1 5

<210> 264

<211> 8

<212> PRT

<213> Homo sapiens

<400> 264

Leu Asn Leu Ala Ser Arg Leu Pro
 1 5

<210> 265

<211> 114

<212> PRT

<213> Homo sapiens

<400> 265

Asn Ser Ala Arg Glu Asp Gly Gln Pro Met Val Leu Lys Leu Lys Asp
 1 5 10 15

Trp Pro Pro Gly Glu Asp Phe Arg Asp Met Met Pro Thr Arg Phe Glu
 20 25 30

Asp Leu Met Glu Asn Leu Pro Leu Pro Glu Tyr Thr Lys Arg Asp Gly
 35 40 45

Arg Leu Asn Leu Ala Ser Arg Leu Pro Ser Tyr Phe Val Arg Pro Asp

50

55

60

Leu Gly Pro Lys Met Tyr Asn Ala Tyr Gly Met Arg Glu Arg Leu Lys
 65 70 75 80

Leu Leu Phe Trp Gly Thr Val Val Leu Ile Ser Thr Ile Glu Gly Tyr
 85 90 95

Leu Trp Ser Met Ser Gly Ile Glu Met Ile Ala Gly Lys Cys Trp Arg
 100 105 110

Ser Glu

<210> 266

<211> 14

<212> PRT

<213> Homo sapiens

<400> 266

Glu Phe Gly Thr Arg Ser Val Ser Ile Gly Tyr Trp Met Gly
 1 5 10

<210> 267

<211> 167

<212> PRT

<213> Homo sapiens

<400> 267

Tyr Phe Val Leu Leu Cys Pro Ser Asp Leu Val Leu Gln Ala Pro Pro
 1 5 10 15

Leu Gly Cys Leu Leu Tyr Thr Ser His Lys Gly Leu Trp Ala Val Met
 20 25 30

Lys Met Lys Ile Ile Leu Arg Thr Leu Leu Val Trp His Ala Ile Thr
 35 40 45

Asp Asp Asp Val Asp Asp Asp Ser Asp Glu Gly Ala Met Ala Ala Ile
 50 55 60

Ala Arg Tyr Met Pro Asp Ser Val Leu Met Thr Leu Ala Glu Phe Glu
 65 70 75 80

Thr Ala Arg Glu Ala Trp Asn Ala Leu Lys Lys Met Arg Ile Gly Glu
 85 90 95

Asp Arg Val Thr Lys Ala Trp Thr Gln Val Leu Lys Arg Gln Phe His
 100 105 110

Lys Leu His Met Glu Glu Thr Glu Ser Val Asn Asp Tyr Ala Met Cys
 115 120 125

Leu Thr Thr Leu Val Gly Glu Phe Arg Ala Leu Gly Ala Lys Leu Asp
 130 135 140

Glu Thr Glu Ile Val Glu Lys Ile Phe Ser Ser Val Thr Asp Lys Phe
 145 150 155 160

Thr Tyr Ile Ile Gly Thr Leu
 165

<210> 268
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 268
 Leu Val Leu Gln Ala Pro Pro Leu Gly Cys Leu Leu Tyr Thr Ser His
 1 5 10 15

Lys Gly Leu Trp Ala Val Met Lys Met Lys Ile
 20 25

<210> 269
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 269
 Ala Ile Ala Arg Tyr Met Pro Asp Ser Val Leu Met Thr Leu Ala Glu
 1 5 10 15

Phe Glu Thr Ala Arg Glu Ala Trp Asn
 20 25

<210> 270
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 270
 Ala Met Cys Leu Thr Thr Leu Val Gly Glu Phe Arg Ala Leu Gly Ala
 1 5 10 15

Lys Leu Asp Glu Thr Glu Ile Val
 20

<210> 271
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 271
 Val Ala Pro Ser His Arg Val His Cys Gln
 1 5 10

<210> 272
 <211> 16

<212> PRT
 <213> Homo sapiens

<400> 272
 Leu Arg Gln Ser Leu Ala Leu Ser Ser Arg Leu Glu Cys Ser Gly Ala
 1 5 10 15

<210> 273
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 273
 Asp Ala Tyr Asn Ser Ile His Phe Val Asp Thr Ile Ile Ala Arg Thr
 1 5 10 15

Lys Ile

<210> 274
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 274
 Arg Gly Ile Arg Phe Cys Gln Met Leu Ser Leu His Lys Thr Ser Ser
 1 5 10 15
 Leu Pro Leu Leu Phe Asn Leu Glu Ala Phe Ser Met Pro Pro Ala
 20 25 30

<210> 275
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 275
 Leu Ala Ile Ser His Ser Tyr Lys Ser Leu Leu Gln Gly Ile Pro Gly
 1 5 10 15
 Ser Ser Tyr Phe Lys Val Pro Thr His His Ser Xaa Ile Phe Ser Ile
 20 25 30
 His Ala Thr Thr Glu Pro Ser Lys Tyr Ser Ala Ile Met Lys Pro Thr
 35 40 45
 Gln Gln Ser His Ile Ala Phe Phe Phe Lys Lys Lys Asn Lys
 50 55 60

<210> 276
 <211> 34

<212> PRT
 <213> Homo sapiens

<400> 276

Gln Gly Ile Pro Gly Ser Ser Tyr Phe Lys Val Pro Thr His His Ser
 1 5 10 15

Xaa Ile Phe Ser Ile His Ala Thr Thr Glu Pro Ser Lys Tyr Ser Ala
 20 25 30

Ile Met

<210> 277

<211> 6

<212> PRT

<213> Homo sapiens

<400> 277

Trp Leu Phe Leu Lys Glu
 1 5

<210> 278

<211> 9

<212> PRT

<213> Homo sapiens

<400> 278

Ile Arg His Glu Asp Gln Ala Pro Ala
 1 5

<210> 279

<211> 34

<212> PRT

<213> Homo sapiens

<400> 279

Ile Arg His Glu Leu Ala Cys Ser Arg Thr Gly Phe Leu Ala Leu Ser
 1 5 10 15

Gln Cys Ser Phe Pro His Thr Thr Leu Thr Gly Phe Pro Gly Gln Arg
 20 25 30

Ala Gly

<210> 280

<211> 100

<212> PRT

<213> Homo sapiens

<400> 280

Ile Leu Ser Val Met Glu Ser Ser Pro Leu Ser Lys Gly Leu Gly Lys
 1 5 10 15

Gly Gly Val Leu Val Thr Thr Glu Thr Val Glu Thr Asn Leu His Val
 20 25 30

Pro Gln Met Ile Leu Phe Gln Gly Ser Leu Met Ser Met Lys Glu Leu
 35 40 45

Asp Leu Ser Leu Thr Ser Leu Gln Ser Val Cys Ser Leu Gln Met Gly
 50 55 60

Lys Gln Arg Leu Asn Glu Val Lys Leu Gly Ile Phe Leu Asn Ser Val
 65 70 75 80

Phe Pro Ser Thr Asp Ser Gly Ala Phe Arg Cys Gln Met Arg Ile Asp
 85 90 95

Gly Trp Val Arg
 100

<210> 281

<211> 21

<212> PRT

<213> Homo sapiens

<400> 281

Gly Val Leu Val Thr Thr Glu Thr Val Glu Thr Asn Leu His Val Pro
 1 5 10 15

Gln Met Ile Leu Phe
 20

<210> 282

<211> 30

<212> PRT

<213> Homo sapiens

<400> 282

Leu Gln Met Gly Lys Gln Arg Leu Asn Glu Val Lys Leu Gly Ile Phe
 1 5 10 15

Leu Asn Ser Val Phe Pro Ser Thr Asp Ser Gly Ala Phe Arg
 20 25 30

<210> 283

<211> 84

<212> PRT

<213> Homo sapiens

<400> 283

Glu Leu Val Glu Ser Pro Gly Leu Ala Gly Ile Arg His Glu Thr Ser
 1 5 10 15

Thr Asn Ser Ser Leu Ser Thr Asp Asn Leu Thr Ser Ile Phe Thr Glu
 20 25 30

Thr Lys Lys Lys Asn Gln Met Ser Tyr Ala His His Val Thr Val Phe
 35 40 45

Pro Asn Tyr Leu Pro Leu Cys Thr Pro Pro His Cys Leu Leu Gln Leu
 50 55 60

Leu Ser Arg Ala Ser Ala Ser Ala His Val Leu Glu Pro Val Pro Pro
 65 70 75 80

Pro Phe Ser Ser

<210> 284

<211> 31

<212> PRT

<213> Homo sapiens

<400> 284

Thr Ser Thr Asn Ser Ser Leu Ser Thr Asp Asn Leu Thr Ser Ile Phe
 1 5 10 15

Thr Glu Thr Lys Lys Lys Asn Gln Met Ser Tyr Ala His His Val
 20 25 30

<210> 285

<211> 50

<212> PRT

<213> Homo sapiens

<400> 285

Val Met Pro Ile Thr Ser Pro Tyr Ser Gln Thr Thr Cys Leu Cys Ala
 1 5 10 15

His His Leu Thr Ala Cys Cys Ser Tyr Cys Pro Gly Pro Ala Pro Leu
 20 25 30

Pro Met Tyr Trp Ser Leu Ser Leu His Pro Phe Gln Ala Cys Tyr Ser
 35 40 45

Ile Lys
 50

<210> 286

<211> 29

<212> PRT

<213> Homo sapiens

<400> 286

Cys Ala His His Leu Thr Ala Cys Cys Ser Tyr Cys Pro Gly Pro Ala
 1 5 10 15

Pro Leu Pro Met Tyr Trp Ser Leu Ser Leu His Pro Phe
 20 25

<210> 287
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 287
 Gln His Phe Leu Leu Leu Leu Tyr Arg Ile Lys Met Leu Tyr Phe Leu
 1 5 10 15
 Pro Ser Leu Lys Lys Lys Lys Ser Leu Leu Thr Leu Tyr Leu Pro Pro
 20 25 30
 Ala Thr Asn Cys Ile Xaa Leu Leu Cys Phe Lys Glu Lys Lys
 35 40 45

<210> 288
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 288
 Asn Ser Ala Arg Glu Lys Asn Lys Asn
 1 5

<210> 289
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 289
 Ala Gln Gln Phe Ile Asn Asn Ile Met Gly Ser Leu Ser Tyr Gly Gln
 1 5 10 15
 Arg Glu Lys Lys Lys Asn Pro Lys Gln Gln Ser Leu Ser Cys Pro Leu
 20 25 30
 Gly Gly Thr Ala Pro Gln Asp Gly Glu Lys Gly Ser Leu Pro Ser Lys
 35 40 45
 Val Leu Phe Leu Glu Ala Phe His Ser Gln Ile Leu Leu Leu Leu Leu
 50 55 60
 Leu Pro Pro Pro Trp Met Thr Trp Gly Leu Thr His Glu Ser Met Glu
 65 70 75 80
 Phe Ser Gln Ala Ala Glu His Ser Gly Ser His Leu
 85 90

<210> 290
 <211> 24

<212> PRT

<213> Homo sapiens

<400> 290

Gly Thr Ala Pro Gln Asp Gly Glu Lys Gly Ser Leu Pro Ser Lys Val
 1 5 10 15

Leu Phe Leu Glu Ala Phe His Ser
 20

<210> 291

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 291

Gln Asp Leu Thr Leu Leu Pro Arg Leu Glu Cys Ser Gly Thr Ile Thr
 1 5 10 15

Ala Xaa His Asn Leu Lys Leu Leu Gly Ser Ser Tyr Xaa Pro Ala Ser
 20 25 30

Ser Pro Gln Ser Ala Arg Ile Thr Gly Val Ser His Cys Ala Gln Gln
 35 40 45

Leu Gly Lys Thr Pro Tyr Ser His Val Ser Val Pro Arg Ser Ser Met
 50 55 60

Val Gly Ala Ala Ala Thr Thr Lys Glu Ser Gly Asn Gly Lys Pro Pro
 65 70 75 80

Gly Thr Lys Leu Leu Lys Glu Gly Asn Leu Ser Leu His Pro Val Glu
 85 90 95

Pro Cys Leu Gln Val Gly Arg Thr Asn Ser Val Val Leu Gly Phe Phe
 100 105 110

Ser Ser Leu Ser Val His Arg Lys Val Thr Pro
 115 120

<210> 292

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 292
 Ser Gly Thr Ile Thr Ala Xaa His Asn Leu Lys Leu Leu Gly Ser Ser
 1 5 10 15

Tyr Xaa

<210> 293
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 293
 Val Glu Pro Cys Leu Gln Val Gly Arg Thr Asn Ser Val Val Leu Gly
 1 5 10 15

Phe Phe Ser Ser Leu Ser Val His
 20

<210> 294
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 294
 Cys Phe Phe Cys Leu Ser Thr
 1 5

<210> 295
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 295
 Asn Leu Arg His Gly Leu Lys Thr Leu Phe Arg Leu Thr Trp Lys Ile
 1 5 10 15

Asn Met Ile Leu Ser Ser Phe Lys Asp Leu Thr Glu Gly Ser Thr Glu
 20 25 30

Glu Thr Phe Asn Phe Lys Ile Ile Phe Ser Cys Ile Asn Ile Leu Trp
 35 40 45

Glu Asn Asn Phe Lys Asn Arg Ile Val Leu Arg Gln Lys Lys His Gln
 50 55 60

Ser Ala Phe Pro Phe Glu Ser Leu Ser Asp Ser Ser Gln Ala Lys Met
 65 70 75 80

Phe Asn Ser Leu Val Val Pro Ser Asn Ile
 85 90

<210> 296
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 296
 Asn Met Ile Leu Ser Ser Phe Lys Asp Leu Thr Glu Gly Ser Thr Glu
 1 5 10 15

Glu Thr Phe Asn Phe Lys Ile Ile Phe Ser
 20 25

<210> 297
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 297
 Lys His Gln Ser Ala Phe Pro Phe Glu Ser Leu Ser Asp Ser Ser Gln
 1 5 10 15

Ala Lys Met Phe Asn Ser Leu
 20

<210> 298
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 298
 Val Lys Pro Asp Pro Pro Arg Ala Pro Gly Glu Asn Glu Asp Ser Ser
 1 5 10 15

Val Pro Glu Thr Pro Asp Asn Glu Arg Lys Ala Ser Ile Ser Tyr Phe
 20 25 30

Lys Asn Gln Arg Gly Ile Gln Tyr Ile Asp Leu Ser Ser Asp Ser Glu
 35 40 45

Asp Val Val Ser Pro Asn Cys Ser Asn Thr Val Gln Glu Lys Thr Phe
 50 55 60

Asn Lys Asp Thr Val Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu
 65 70 75 80

Ser Gln Gly Leu Pro Thr Met Ala Arg Arg Asn Asp Asp Ile Ser Glu
 85 90 95

Leu Glu Asp Leu Ser Glu Leu Glu Asp Leu Lys Asp Ala Lys Leu Gln

100

105

110

Thr Leu Lys Glu Leu Phe Pro Gln Arg Ser Asp Asn Asp Leu Leu Lys
 115 120 125

Val Ile Phe Ile Gly Tyr Cys Ser Cys Asn Asp Asp Lys Ile Ser Pro
 130 135 140

Ala Phe Ser Ala Ile Val Ser Ser Gly
 145 150

<210> 299

<211> 17

<212> PRT

<213> Homo sapiens

<400> 299

Lys Asp Ala Lys Leu Gln Thr Leu Lys Glu Leu Phe Pro Gln Arg Ser
 1 5 10 15

Asp

<210> 300

<211> 16

<212> PRT

<213> Homo sapiens

<400> 300

Lys Asp Thr Val Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu Ser
 1 5 10 15

<210> 301

<211> 16

<212> PRT

<213> Homo sapiens

<400> 301

Glu Asp Ser Ser Val Pro Glu Thr Pro Asp Asn Glu Arg Lys Ala Ser
 1 5 10 15

<210> 302

<211> 21

<212> PRT

<213> Homo sapiens

<400> 302

Ser Leu Ile Leu Gln Glu His Gln Glu Lys Met Lys Ile Leu Val Phe

1

5

10

15

Gln Lys Leu Gln Ile
20

<210> 303

<211> 7

<212> PRT

<213> Homo sapiens

<400> 303

Glu Asp Ser Ser Val Pro Glu

1

5

<210> 304

<211> 8

<212> PRT

<213> Homo sapiens

<400> 304

Pro Asp Asn Glu Arg Lys Ala Ser

1

5

<210> 305

<211> 7

<212> PRT

<213> Homo sapiens

<400> 305

Tyr Ile Asp Leu Ser Ser Asp

1

5

<210> 306

<211> 12

<212> PRT

<213> Homo sapiens

<400> 306

Ile Ile Val Ser Glu Pro Ser Glu Asp Glu Glu Ser

1

5

10

<210> 307

<211> 18

<212> PRT

<213> Homo sapiens

<400> 307

Leu Lys Asp Ala Lys Leu Gln Thr Leu Lys Glu Leu Phe Pro Gln Arg

1

5

10

15

Ser Asp

<210> 308
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 308
 Ala Gly Pro Asp Ala Pro Gly Leu Trp Gly
 1 5 10

<210> 309
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 309
 Met Leu Phe Pro Ser Leu Leu Leu Leu Gln Ala Leu Val His Val Phe
 1 5 10 15
 Val Leu Val Lys Leu Glu Tyr Ile Val Ile Ser Leu Asp His Thr Pro
 20 25 30
 Asn Phe Lys Xaa Ser Val Lys Asn Ile Glu Val Leu Val Gly Leu Ala
 35 40 45
 Leu Ala Thr Tyr Glu
 50

<210> 310
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 310
 Phe Val Leu Val Lys Leu Glu Tyr Ile Val Ile Ser Leu Asp His Thr
 1 5 10 15

Pro Asn Phe Lys Xaa Ser Val Lys Asn Ile Glu Val
 20 25

<210> 311
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 311

Phe Gln Leu Asp Lys Phe Leu Ser

1

5

<210> 312

<211> 125

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 312

Gln Arg Gln Val Met Arg Ser Phe Leu Phe Ser Phe Ser Phe Phe Val
1 5 10 15Gly Gly Gly Asp Arg Val Ser Leu Cys His Pro Gly Arg Ser Val Val
20 25 30Val Gln Ser Arg Leu Thr Ala Ile Ser Pro His Pro Thr Ser Arg Phe
35 40 45Lys Arg Phe Leu Cys Leu Arg Leu Leu Ser Ser Trp His Tyr Arg Cys
50 55 60Thr Pro Xaa Arg Trp Ala Lys Phe Cys Ile Leu Val Gly Met Gly Phe
65 70 75 80His His Val Leu Arg Phe Thr Met Leu Ala Arg Leu Val Leu Asp Ser
85 90 95Trp Pro Glu Val Ile Cys Leu Pro Ser Val Ser Gln Lys Cys Trp Asp
100 105 110Tyr Arg Arg Glu Pro Pro His Ser Ala Glu Lys Phe Phe
115 120 125

<210> 313

<211> 27

<212> PRT

<213> Homo sapiens

<400> 313

Pro Gly Arg Ser Val Val Val Gln Ser Arg Leu Thr Ala Ile Ser Pro
1 5 10 15His Pro Thr Ser Arg Phe Lys Arg Phe Leu Cys
20 25

<210> 314

<211> 30

<212> PRT

<213> Homo sapiens

<400> 314

Met Gly Phe His His Val Leu Arg Phe Thr Met Leu Ala Arg Leu Val
 1 5 10 15

Leu Asp Ser Trp Pro Glu Val Ile Cys Leu Pro Ser Val Ser
 20 25 30

<210> 315

<211> 9

<212> PRT

<213> Homo sapiens

<400> 315

Glu Phe Leu Lys Ser Thr Leu Asp Gly
 1 5

<210> 316

<211> 74

<212> PRT

<213> Homo sapiens

<400> 316

Ser Lys Arg Arg Lys Lys Val Ser Trp Leu His Phe Val Phe Ser Ile
 1 5 10 15

Thr Phe Leu Val Ile Asp Leu Val Ile Asp Asn Gly Val Thr Ala Leu
 20 25 30

Glu Thr Phe Phe Pro Ser Gly Ile Asp Ala Tyr Arg Thr Ala Pro Trp
 35 40 45

Pro Leu Asp Gln Ala Gln Arg Asn Leu Gln Pro Glu Ala Leu Val Pro
 50 55 60

Ala His Pro Ser Tyr Val Gly Pro Trp Arg
 65 70

<210> 317

<211> 21

<212> PRT

<213> Homo sapiens

<400> 317

Ser Ile Thr Phe Leu Val Ile Asp Leu Val Ile Asp Asn Gly Val Thr
 1 5 10 15

Ala Leu Glu Thr Phe
 20

<210> 318

<211> 22

<212> PRT

<213> Homo sapiens

<400> 318

Ala Pro Trp Pro Leu Asp Gln Ala Gln Arg Asn Leu Gln Pro Glu Ala
 1 5 10 15

Leu Val Pro Ala His Pro
 20

<210> 319

<211> 14

<212> PRT

<213> Homo sapiens

<400> 319

Arg Thr Pro Phe Ser Ile Ser Tyr Ser Ile Gly Leu Val Leu
 1 5 10

<210> 320

<211> 40

<212> PRT

<213> Homo sapiens

<400> 320

Met Arg Ser Leu Ser Phe Leu Phe Thr Trp Glu Asn Leu Tyr Phe Ser
 1 5 10 15

Phe Thr Phe Glu Val Tyr Phe Tyr Trp Met Tyr Tyr Ser Arg Met Lys
 20 25 30

Val Phe Ser Phe Asn Thr Leu Asn
 35 40

<210> 321

<211> 25

<212> PRT

<213> Homo sapiens

<400> 321

Met Leu Cys His Phe Leu Leu Ala Cys Lys Val Ser Leu Arg Ser Leu
 1 5 10 15

Leu Gln Asp Val Trp Glu Leu Ile Cys
 20 25

<210> 322

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 322

Met Leu Phe Val Ser Phe Leu Xaa Leu Pro Ser Phe Lys Ile Leu Ser
 1 5 10 15

Leu Ser Leu Thr Phe Gly Ser Leu Ile Ile Lys Cys Leu
 20 25

<210> 323

<211> 24

<212> PRT

<213> Homo sapiens

<400> 323

Leu Ile Thr Leu His Leu Ile Leu Phe Pro Phe Leu Thr Phe Tyr Leu
 1 5 10 15

Phe Ile Tyr Tyr Ser Ala Met Ser
 20

<210> 324

<211> 30

<212> PRT

<213> Homo sapiens

<400> 324

Lys Val Val Val Ile Ile Leu Ile Gly Leu Ser Phe Ser Leu Ser
 1 5 10 15

Thr Gln Asp Met Ser Ser Leu His Thr Thr Ile Ala Val Ser
 20 25 30

<210> 325

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 325

Leu Ser Xaa Thr Leu Trp Gly Asn Gly Val Asp Ser Gly Gly Leu Ala
 1 5 10 15

Phe Phe Pro Arg Leu Gly Val Gly Glu Thr Arg Leu Gly Ala Ser Thr
 20 25 30

Ser Glu Cys Pro Pro Asn Arg Ala Val
 35 40

<210> 326

<211> 69

<212> PRT

<213> Homo sapiens

<400> 326

Gly Asp Gly Gly Trp Pro Pro Gln Leu Tyr Ser Pro Glu Gln Glu Val
1 5 10 15

Val Gly Arg Gly Gln Glu Trp Ile Leu Lys Ala Lys Phe Ser Asp Pro
20 25 30

Val Gly Thr Arg Thr Gly Lys Leu Ser Ser Ser Ser Gln Gly Gln Arg
35 40 45

Ile Trp Val Phe Val Gly Phe Cys Pro Gln Pro Gln Asn Ser Arg Ser
50 55 60

Glu Ser Gly Ile Ser
65

<210> 327

<211> 11

<212> PRT

<213> Homo sapiens

<400> 327

Arg Gln Ala Ser Leu Pro Ser Pro Cys Thr Arg
1 5 10

<210> 328

<211> 8

<212> PRT

<213> Homo sapiens

<400> 328

Asn Ser Ala Arg Gly Gln His Glu
1 5

<210> 329

<211> 47

<212> PRT

<213> Homo sapiens

<400> 329

Asp Tyr Arg Arg Glu His Arg Thr Trp Ser Asp Phe Phe Phe Lys Cys
1 5 10 15

Lys Ser Asp Tyr Val Thr Leu Leu Leu Glu Ala Pro Gln Trp Leu Pro
20 25 30

Met Ala Val Arg Val Arg Ala Ser Pro Arg Pro Gly Phe Pro Pro
35 40 45

<210> 330

<211> 49

<212> PRT

<213> Homo sapiens

<400> 330

Val Ala Pro Gly Phe Arg Leu Leu Leu Tyr Ser Tyr Pro Glu Leu Arg
1 5 10 15

Gln Ala Leu Ser Gln Pro Arg Pro Leu Leu Pro Leu Ser Gly Thr Thr
20 25 30

Phe Pro Gly Leu Phe Val Pro Phe Ile Leu Lys Ser Pro Pro Gln Arg
35 40 45

Ala

<210> 331

<211> 47

<212> PRT

<213> Homo sapiens

<400> 331

Leu Leu Ser His Ser Leu Ser Ser Pro Cys Leu Leu Pro Ser His Tyr
1 5 10 15

Leu Val Ser Leu Glu Ala Tyr Val Cys Leu Pro Ser Val Glu Cys Gly
20 25 30

Pro His Gly Thr Gly Pro Ser Gly Ser Leu Leu Cys Ser Gly Leu
35 40 45

<210> 332

<211> 35

<212> PRT

<213> Homo sapiens

<400> 332

Ser Lys Asp Ala Ser Val Arg Leu Asp Val Ala Leu Ala Gly Trp Leu
1 5 10 15

Gly Val Pro Pro Gly Val Ile Cys Cys His Leu Leu Thr Cys Pro Arg
20 25 30

Cys Cys Leu
35

<210> 333

<211> 52

<212> PRT

<213> Homo sapiens

<400> 333

Glu Phe Gly Thr Arg Met Gly Phe His His Val Gly Gln Ala Gly Leu
1 5 10 15

Glu Leu Leu Thr Leu Gly Asp Arg Pro Ala Ser Ala Ser Gln Asn Ala

20

25

30

Glu Ile Thr Gly Val Ser Thr Ala Pro Gly Leu Ile Phe Phe Leu Asn
 35 40 45

Ala Asn Gln Thr
 50

<210> 334

<211> 25

<212> PRT

<213> Homo sapiens

<400> 334

Met Leu Leu Val Ser Leu Leu Ser Ile Ala Arg Ile Thr Phe Ile Leu
 1 5 10 15

Val Pro Asn Lys Phe Leu Ile Ser Ile
 20 25

<210> 335

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 335

Glu Ile Thr Ser Ala Trp Thr Leu Leu Ser Ile Ser Leu Ser Ala Phe
 1 5 10 15

Trp Ser Lys Ser Phe Asn Lys Ser Leu Arg Ser Ser Lys Leu Ser His
 20 25 30

Val Phe Leu Phe Phe Ser Glu Pro Ser Lys Leu Phe Gln Pro Leu Pro
 35 40 45

Ile Thr Gln Phe Gln Ser Cys Phe His Ile Phe Glu Tyr Xaa Ile Ala
 50 55 60

Xaa Pro Thr Leu Cys Ser
 65 70

<210> 336

<211> 52

<212> PRT

<213> Homo sapiens

<400> 336

Leu Leu Arg Ser Arg Leu Asn Ser Arg Ser Leu Cys Val Ser Val Phe
 1 5 10 15

Val Phe Gln Gln Ile Phe Leu Lys Asn Gln Pro Leu Lys Arg Asn Gly
 20 25 30

Asn His Trp Pro Leu Ser Pro Pro Pro His Leu Arg Ser Pro Lys Ser
 35 40 45

Arg Cys Val His
 50

<210> 337

<211> 63

<212> PRT

<213> Homo sapiens

<400> 337

Glu Ile Phe Val Gly Lys Gln Lys Leu Thr His Ile Lys Thr Leu Asn
 1 5 10 15

Ser Ile Tyr Ser Leu Ile Val Arg Lys Glu Arg Arg Arg Glu Gly Lys
 20 25 30

Lys Met Glu Lys Lys Ile Gly Lys Lys Gly Lys Lys Arg Glu Lys Gly
 35 40 45

Leu Asp Val Val Ala His Ala Cys Asn Pro Ser Thr Leu Glu Gly
 50 55 60

<210> 338

<211> 40

<212> PRT

<213> Homo sapiens

<400> 338

Phe Tyr Ile Asn Lys Ile Ile Lys Tyr Pro Gly Ile Thr Glu Met Thr
 1 5 10 15

Tyr Arg Gly Ser Ser Lys Ala Trp Lys Tyr Ser Met Val Thr Glu Leu
 20 25 30

Lys Lys Gly Lys Cys Gln Met Leu
 35 40

<210> 339

<211> 19

<212> PRT

<213> Homo sapiens

<400> 339

Gly Gln Phe Ser Ser Leu Phe Tyr Phe Tyr Phe Cys Ser Leu Ser Asp
 1 5 10 15

Ile Ala Gly

<210> 340
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 340
 Ile Trp Met Glu Ile
 1 5

<210> 341
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 341
 Asn Ser Ala Arg Gly Ala Ile
 1 5

<210> 342
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 342
 Tyr Asn His Ile Tyr Lys Val Pro Leu Ala Ile Glu Val Thr Tyr Leu
 1 5 10 15

Tyr Val Phe Ile Ile Arg
 20

<210> 343
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 343
 Tyr Asn His Ile Tyr Lys Val Pro Leu Ala Ile Glu Val Thr Tyr Leu
 1 5 10 15

Tyr Val Phe Ile Ile Arg
 20

<210> 344
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 344
 Ile Lys Cys Arg Trp Gly Glu Glu Glu Asn Ser Lys

1

5

10

<210> 345

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 345

Thr	Thr	Tyr	Leu	Leu	Asn	Asn	Tyr	Phe	Asp	Cys	Leu	Tyr	Ser	Tyr	His
1				5					10					15	

Asp	Ala	Thr	Phe	Xaa	His	Leu	Cys	Ser	Val	His	Xaa	Ile	Leu	Thr	Glu
			20					25					30		

Cys	Leu	Glu	Met	Leu	Asp	Phe	Arg	Phe	Gln	Leu	Cys	Cys	Gly
	35						40					45	

<210> 346

<211> 62

<212> PRT

<213> Homo sapiens

<400> 346

Met	Ala	Ser	Thr	Pro	Ser	Val	Lys	Leu	Gln	Arg	Ser	Ser	Asp	Asp	Cys
1				5					10					15	

Tyr	Phe	His	His	Tyr	Tyr	Ser	Ser	Ser	Leu	Val	Arg	Lys	Thr	Lys	Ala
			20					25					30		

Gln	Arg	Ala	Tyr	Ser	Gln	Asp	Leu	Asn	Leu	Phe	Phe	Pro	Ser	Leu	Ser
		35					40					45			

Phe	Ile	Ser	Tyr	Phe	Gln	Asn	Glu	Tyr	Asn	Asn	Ser	Thr	Ser
	50					55					60		

<210> 347

<211> 27

<212> PRT

<213> Homo sapiens

<400> 347

His	His	Tyr	Tyr	Ser	Ser	Ser	Leu	Val	Arg	Lys	Thr	Lys	Ala	Gln	Arg
1				5					10				15		

Ala Tyr Ser Gln Asp Leu Asn Leu Phe Phe Pro

20

25

<210> 348
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 348
 Ile Arg His Glu Leu Met Val Phe Ile Thr Tyr Met Ser His His Ser
 1 5 10 15
 Cys Thr Thr Val Ala Asn Ile Asn Ile Lys
 20 25

<210> 349
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 349
 Asp Ser Leu Ile Leu Ala Thr Tyr Ser Val Ser Trp Asn Leu Phe Pro
 1 5 10 15
 Asn Met Ile Glu Lys Lys Pro Arg Thr Trp Gln Leu Leu Leu Phe Phe
 20 25 30
 Ser Leu Glu
 35

<210> 350
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 350
 Glu Phe Gly Thr Ser Ser Asn Lys Gln Thr Asn Lys Gln Thr Ser
 1 5 10 15

<210> 351
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 351
 Pro Gln Tyr Tyr Ser His Lys Gln Gly Val Pro Arg Gln Ser Ile Thr
 1 5 10 15
 Glu His Lys Gln Lys Met Leu Thr Leu Gln Val Ser Phe Leu Ser Thr
 20 25 30

Ile Lys Val Gly Ala Asn Asn Thr Arg
 35 40

<210> 352
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 352
 Ile Phe Leu His Leu Thr Arg Leu Lys Ser Ser Thr Pro Tyr Pro Cys
 1 5 10 15
 Ala Ile Ile Cys Thr Arg Lys Tyr Met Ile Arg Arg Xaa Arg Thr Pro
 20 25 30
 Ser Cys His Gln Leu Phe
 35

<210> 353
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 353
 Ser Thr Arg Arg Val Leu Ile Asp Phe His Ser Glu Asn Leu Val Gly
 1 5 10 15
 Asn Thr His Leu Ser Met Gly Ser Cys Val Arg Pro Asp Pro Trp Ser
 20 25 30
 Phe Lys Phe Ser Gly Trp Phe Asn Leu Ser
 35 40